

PARTS CATALOG



21B

Automatic Direction Finder

Aircraft Radio Corporation
BOONTON, NEW JERSEY

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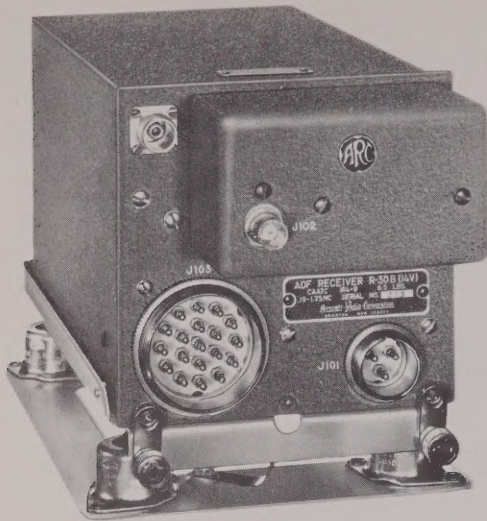


Aircraft Radio Corporation

BOONTON, NEW JERSEY

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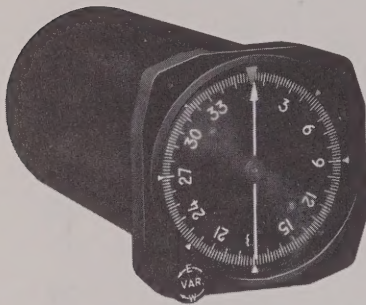
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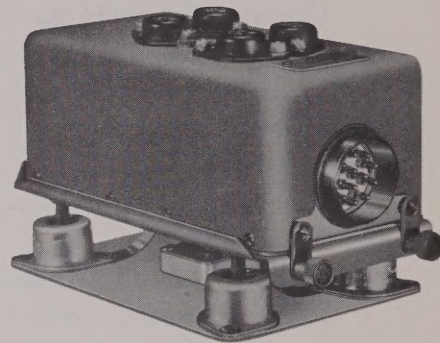
R-30B RECEIVER WITH
M-26A MOUNTING



C-59A CONTROL UNIT



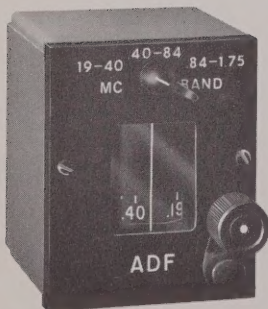
IN-21C GONIOMETER-INDICATOR



DV-14A DYNAVERTER
WITH M-28A MOUNTING



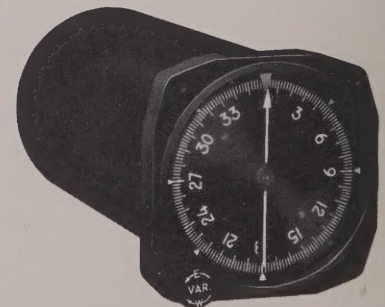
L-40B LOOP ANTENNA



CC-14A CONTROL UNIT



CC-15A CONTROL UNIT



IN-21B GONIOMETER-INDICATOR

INTRODUCTION

GENERAL.

This catalog contains parts information for the 21B Automatic Direction Finder, manufactured by Aircraft Radio Corporation, Boonton, New Jersey.

Each unit and the accessories of the 21B ADF are covered in separate sections. Each section contains an illustrated group assembly parts list and a reference designation index.

PARTS LISTS.

Each parts list consists of a breakdown of the unit into assemblies, subassemblies, and detail parts. Items which are made from bulk stock, such as cut lengths of wire, are not included.

The description column lists each assembly or subassembly and its detail parts properly indented to show their relationship to the assembly or subassembly. Attaching parts are listed in the same indented column, immediately following the parts they attach. The symbol "- - - * - - -" indicates the completion of the attaching parts. A reference to a figure and index number in the description column refers to a separate illustration and listing in which the detail parts are shown, or to the illustration on which the part is shown as an assembled item. Parts which are limited in use to a specific model or serial number group are identified by noting the applicable model or serial numbers. Codes and part numbers of manufacturers, other than ARC, are also included in parentheses in the description column.

Except for attaching parts, the quantities listed in the "Qty-per-Assy" column are the quantities per assembly, or per subassembly. The quantities specified, therefore, are not necessarily the total for the unit; the letters "AR" denote that the quantity used is "as required." "Ref" indicates an assembly which was removed previously and which is relisted for reference purposes.

REFERENCE DESIGNATION INDEXES.

The unit reference designation index lists the reference designations which have been assigned to the parts of the unit, cross-referenced to the figure and index numbers and the part number. Where no figure and index number exists for a part, the figure and index number of the next higher assembly is listed in parentheses, and the part number of the next higher assembly is also listed. The reference designation column lists the reference designations in alphabetical-numerical sequence. All reference designations used in illustrations and publications pertaining to the unit are listed.

MANUFACTURERS' CODES.

The following is a list of manufacturers' codes and the corresponding names and addresses, which are referenced in this parts catalog.

Code	Name and Address
AB	Allen-Bradley Co. Milwaukee, Wisconsin
AR	American Brass Co. Waterbury, Connecticut
CANNON	Cannon Electric Co. Salem, Massachusetts
CIN	Cinch Manufacturing Corp. Chicago, Illinois
CLD	Cornell-Dubilier Electric Corp. South Plainfield, New Jersey
CLIP	Clifton Precision Products Co. Clifton Heights, Pennsylvania
CMMU	Communication Equipment & Eng. Co. Chicago, Illinois
CMPB	Colin Campbell Co., Inc. Danbury, Connecticut
CN	Centralab Division Globe-Union, Inc. Milwaukee, Wisconsin
CUT	Cutler-Hammer Inc. Milwaukee, Wisconsin
DABU	Dale Products, Inc. Columbus, Nebraska
DADGE	Dadge Electric Co., Inc. Beech Grove, Indiana
DECN	Delevan Electronics Corp. East Aurora, New York
EMM	Electro Motive Mfg. Co. Willimantic, Connecticut
EN	Elastic Stop Nut Corp. of America Union, New Jersey
ERC	Erie Resistor Corp. Erie, Pennsylvania
FMCD	Microdot, Inc. South Pasadena, California
FML	Fansteel Metallurgical Corp. North Chicago, Illinois

Introduction

<i>Code</i>	<i>Name and Address</i>	<i>Code</i>	<i>Name and Address</i>
GAEM	Good-All Electric Mfg. Co. Ogallala, Nebraska	SH	Shakeproof Division Illinois Tool Works Elgin, Illinois
GBR	Globar Division Carborundum Co. Niagara Falls, New York	SLM	Solar Manufacturing Corp. New York, New York
GE	General Electric Co. Schenectady, New York	SPR	Sprague Electric Co. North Adams, Massachusetts
GMC	Grimes Manufacturing Co. Urbana, Ohio	STL	Stackpole Carbon Co. St. Marys, Pennsylvania
HUG	Hughes Aircraft Co. Culver City, California	SUR	Surprenant Manufacturing Co. Boston, Massachusetts
IPC	Industrial Products Co. Division Amphenol-Borg Electronics Corp. Danbury, Connecticut	TI	Semiconductor-Components Division Texas Instruments, Inc. Houston, Texas
JFDM	J. F. D. Manufacturing Co., Inc. Brooklyn, New York	TJL	Judson L. Thomson Mfg. Co. Waltham, Massachusetts
JFE	Jeffers Electronics Corp. St. Marys, Pennsylvania	UC	United-Carr Fastener Corp. Boston, Massachusetts
KER	Kearfott Mfg. Co. Newark, New Jersey	UGA	United States Gasket Co. Camden, New Jersey
MAL	P. R. Mallory & Co. Indianapolis, Indiana	UNT	United Transformer Co. New York, New York
MCS	Micro Switch Div. Minneapolis-Honeywell Regulator Co. Freeport, Illinois	USC	U. S. Components, Inc. New York, New York
ND	New Departure Division General Motors Corp. Bristol, Connecticut	WIQ	Winchester Electronics Co. Glenbrook, Connecticut
OAK	Oak Manufacturing Co. Chicago, Illinois	WKI	Waldes Kohinoor, Inc. Long Island City, New York
PK	Parker-Kalon Division General American Transportation Corp Clifton, New Jersey	WS	Weston Instruments Division Daystrom, Inc. Newark, New Jersey

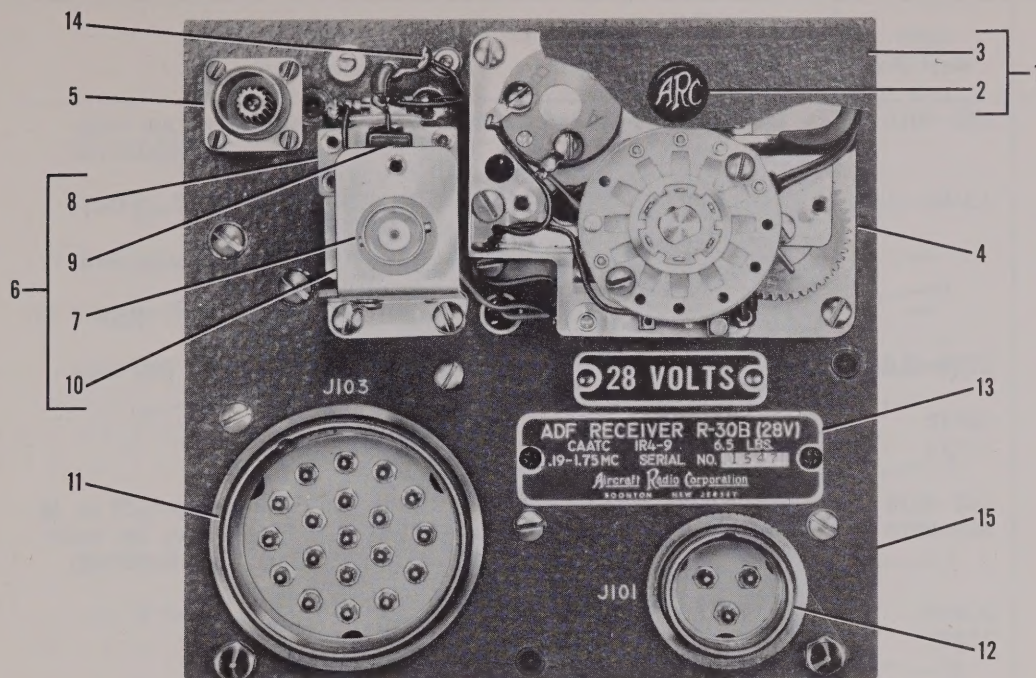


Figure 1. R-30B Receiver, Front View

TP1296

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
1-	34850-0014		RECEIVER ASSEMBLY (14V) (front view)	
1-	34850-0028		RECEIVER ASSEMBLY (28V) (front view)	
-1	20910		. COVER ASSEMBLY.	1
			(ATTACHING PARTS)	
	513-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, blk oxidized, No. 3-48 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	3
-2	20909		. . EMBLEM	1
			(ATTACHING PARTS)	
	8040		. . NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk . . .	1
	7730		. . WASHER, Spring tension	1
			- - - * - - -	
-3	20509		. . COVER	1
-4	17930-0014		. GEARING SUBASSEMBLY (14V) (see Figure 3)	1
-4	17930-0028		. GEARING SUBASSEMBLY (28V) (see Figure 3)	1
			(ATTACHING PARTS)	
	503-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	3
-5	18163		. SLEEVE.	1
			(ATTACHING PARTS)	
	162-0010		. SCREW, Machine, fil hd, brs, ni pl, No. 2-56 thd by 5/32 in. lg . - - - * - - -	4
-6	20631-0014		. RELAY ASSEMBLY (14V)	1
-6	20631-0028		. RELAY ASSEMBLY (28V)	1
			(ATTACHING PARTS)	
	503-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS)	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
1-7	503-0010	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/32 in. lg (SH)(SEMS) - - - * - - -	1
	15185	.	CONNECTOR, Receptacle (UG-625/U) (IPC) (IPC-18450) . . . (ATTACHING PARTS)	1
	—	.	NUT, Hexagon, 3/8-32 thd by 1/16 in. thk (supplied with 7, . . Figure 1)	1
	—	.	WASHER, Lock, sst, 3/8 in. ID (supplied with 7, Figure 1). . . - - - * - - -	1
	8706-0151	.	CAPACITOR, Fixed, mica, 150 pf ± 2 per cent, 500 vdcw . . . (EMM)(CM15D151G)	1
	12712	.	RELAY, Armature (14V)	1
	12713	.	RELAY, Armature (28V) (ATTACHING PARTS)	1
	143-0010	.	SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 5/32 in. lg. . .	1
	503-0010	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . washer, ni pl, No. 3-48 thd by 5/32 in. lg (SH)(SEMS) - - - * - - -	1
	20508	.	BRACKET, Angle	1
-8	12357	.	CONNECTOR, Receptacle, 19 pin (ATTACHING PARTS)	1
	5310	.	NUT, Knurled (supplied with 11, Figure 1) - - - * - - -	1
	12426	.	CONNECTOR, Receptacle, 3 pin (ATTACHING PARTS)	1
	9327	.	NUT, Knurled (supplied with 12, Figure 1) - - - * - - -	1
	34853-0001	.	PLATE, Identification (14V)	1
	34853-0002	.	PLATE, Identification (28V) (ATTACHING PARTS)	1
	8081	.	SCREW, Tapping, thd forming, rd hd, Phillips dr, stl, blk . . . Parkerized fin, No. 2 by 5/32 in. lg (PK)(Z) - - - * - - -	2
	14378	.	TERMINAL ASSEMBLY (ATTACHING PARTS)	1
	503-0016	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS)	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1
-12	20610	.	FRONT PANEL (ATTACHING PARTS)	1
	503-0020	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/16 in. lg (SH)(SEMS)	4
	18062	.	STUD	2
	8488	.	WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk . . . (SH)(1706) - - - * - - -	2
	20480-0014	.	RECEIVER ASSEMBLY (14V)(top interior view)	Ref
	20480-0028	.	RECEIVER ASSEMBLY (28V)(top interior view)	Ref
	18077	.	COVER (ATTACHING PARTS)	1
	513-0012	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, blk oxidized, No. 3-48 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	6
	20639	.	BEAT FREQUENCY OSCILLATOR (ATTACHING PARTS)	1
	8040	.	NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2

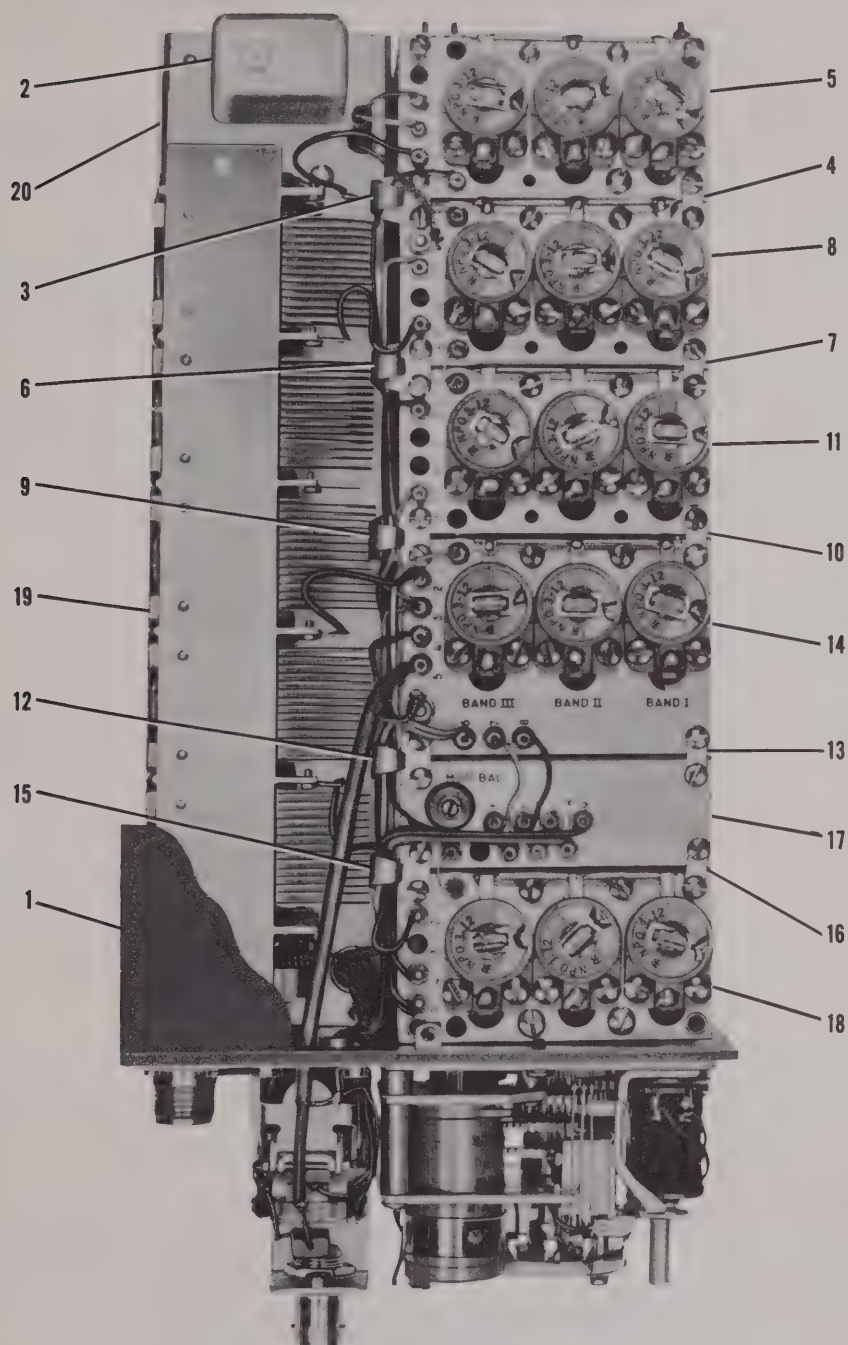


Figure 2. R-30B Receiver, Top Interior View

TP1298

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
2-3	8497		. WASHER, Lock, sst, 0.119 ID by 0.260 OD by 0.029 in. thk . . . (SH)(1704) - - - * - - -	2
	18075		. CLAMP, Formed. (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-4	17778		. STRAP (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-5	17910		. OSCILLATOR SUBASSEMBLY (see Figure 4) (ATTACHING PARTS)	1
	502-0020		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 5/16 in. lg (SH)(SEMS)	1
	502-0014		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 7/32 in. lg (SH)(SEMS) - - - * - - -	1
-6	18075		. CLAMP, Formed. (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-7	17778		. STRAP (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-8	17820		. RF SUBASSEMBLY, Second (see Figure 5) (ATTACHING PARTS)	1
	502-0014		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 7/32 in. lg (SH)(SEMS)	1
	19839		. SCREW	1
	4052		. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	1
-9	18075		. CLAMP, Formed. (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-10	17778		. STRAP (ATTACHING PARTS)	1
	502-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	2
-11	17810		. RF SUBASSEMBLY, First (see Figure 6) (ATTACHING PARTS)	1
	502-0014		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 7/32 in. lg (SH)(SEMS)	1
	19839		. SCREW	1
	4052		. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
2-12	18075	.	CLAMP, Formed.	1
			(ATTACHING PARTS)	
	502-0012	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS)	
			- - - * - - -	
-13	17778	.	STRAP	1
			(ATTACHING PARTS)	
	502-0012	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS)	
			- - - * - - -	
-14	18120	.	ANTENNA SUBASSEMBLY (see Figure 7)	1
			(ATTACHING PARTS)	
	19839	.	SCREW	2
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . .	2
			(SH)(1702)	
			- - - * - - -	
-15	18075	.	CLAMP, Formed.	1
			(ATTACHING PARTS)	
	502-0012	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS)	
			- - - * - - -	
-16	17778	.	STRAP	1
			(ATTACHING PARTS)	
	502-0012	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 3/16 in. lg (SH)(SEMS)	
			- - - * - - -	
-17	17870-0001	.	MODULATOR SUBASSEMBLY (see Figure 8)	1
			(ATTACHING PARTS)	
	19839	.	SCREW	2
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . .	2
			(SH)(1702)	
			- - - * - - -	
-18	17890	.	LOOP SUBASSEMBLY (see Figure 9)	1
			(ATTACHING PARTS)	
	502-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 7/32 in. lg (SH)(SEMS)	
			- - - * - - -	
-19	18688	.	CAPACITOR, Variable	1
			(ATTACHING PARTS)	
	503-0024	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 3/8 in. lg (SH)(SEMS)	
	4561	.	NUT, Hexagon, brs, ni pl, No. 3-48 thd by 1/16 in. thk	2
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . .	2
			(SH)(1703)	
	504-0024	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 4-40 thd by 3/8 in. lg (SH)(SEMS)	
			- - - * - - -	
-20	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	
-21	—	.	CHASSIS ASSEMBLY (see Figures 10 and 11)	1

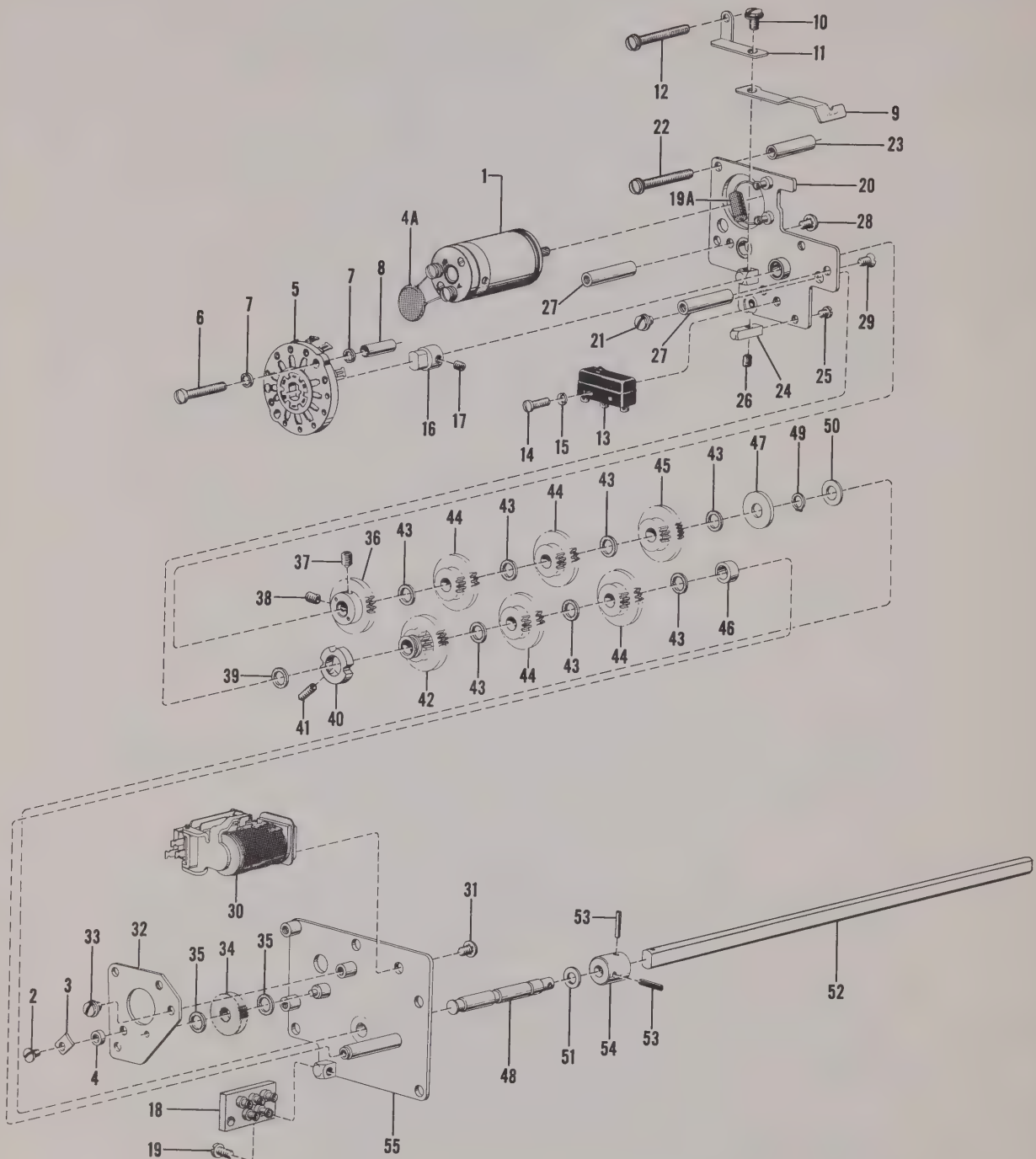
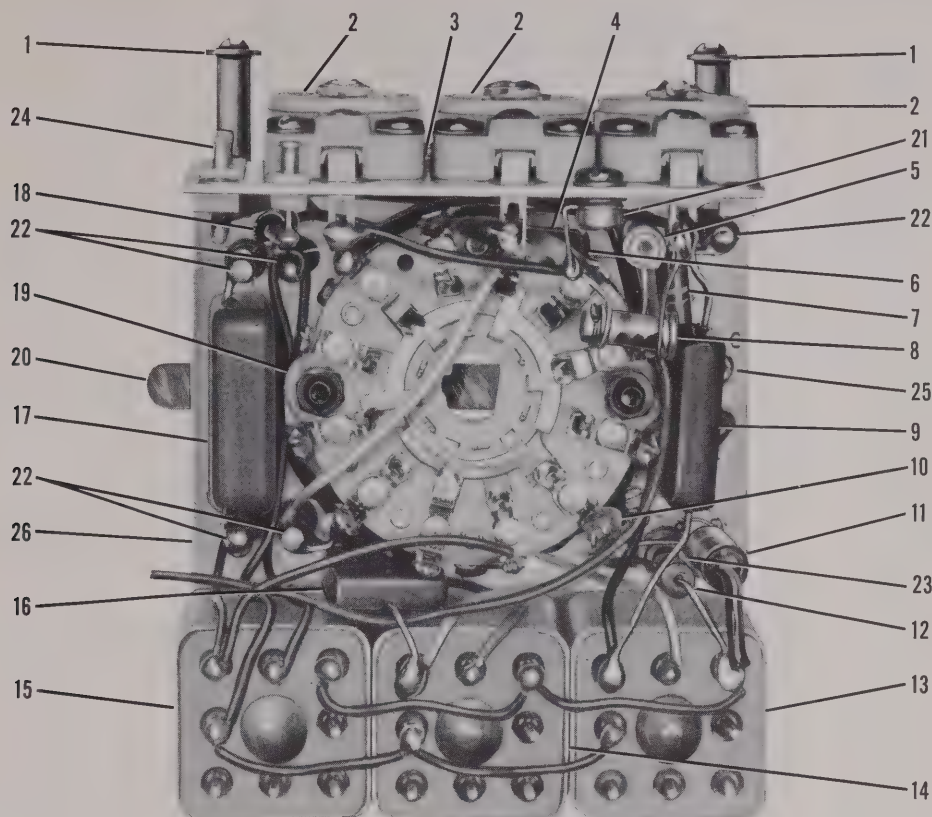


Figure 3. Gearing Subassembly, Band Selector

TP1587A

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
3-	17930-0014		GEARING SUBASSEMBLY, Band selector (14V)(see 4, Figure 1) .	Ref
3-	17930-0028		GEARING SUBASSEMBLY, Band selector (28V)(see 4, Figure 1) .	Ref
-1	18800		. MOTOR, Gear drive (14V)(CLIP)(DC-8-C-51)	1
-1	18801		. MOTOR, Gear drive (28V)(CLIP)(DC-8-C-11)	1
			(ATTACHING PARTS)	
-2	103-0012		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 3/16 in. lg .	2
-3	17963		. CLAMP	2
-4	12793		. WASHER, Flat, Al, 0.104 ID by 0.197 OD by 0.047 in. thk . . .	2
			--- * ---	
-4A	8627-9103		. CAPACITOR, Fixed, ceramic, 0.01 μ f $\pm$ 20 per cent, 500 vdcw .	1
			(AB)(36-103W)	
-5	17924		. SWITCH, Rotary	1
			(ATTACHING PARTS)	
-6	164-0052		. SCREW, Machine, fil h, brs, ni pl, No. 4-40 thd by 13/16 in. lg .	2
-7	17527		. WASHER, Non-metallic, phen, 0.116 ID by 0.187 OD by 0.032 . .	4
			in. thk	
-8	17925		. SPACER	2
			--- * ---	
-9	17964		. SPRING	1
			(ATTACHING PARTS)	
-10	503-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS)	
			--- * ---	
-11	19159		. BRACKET	1
			(ATTACHING PARTS)	
-12	503-0064		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 1 in. lg (SH)(SEMS)	
			--- * ---	
-13	21967		. SWITCH, Sensitive, SPDT (MCS)(ISM1)	1
			(ATTACHING PARTS)	
-14	102-0024		. SCREW, Machine, bind. h, brs, ni pl, No. 2-56 thd by 3/8 in. lg .	1
-15	10352		. WASHER, Spring tension	1
			--- * ---	
-16	17918		. COUPLING	1
			(ATTACHING PARTS)	
-17	304-0006		. SETSCREW, Bristo, cup point, sst, No. 4-40 NC-3 thd by 3/32 .	1
			in. lg	
			--- * ---	
-18	17894		. TERMINAL PLATE	1
			(ATTACHING PARTS)	
-19	103-0016		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 in. lg .	2
			--- * ---	
-19A	8877-9472		. CHOKE, RF, 0.47 μ h $\pm$ 20 per cent (JFE)(10100-626)	1
-20	17912		. PLATE	1
			(ATTACHING PARTS)	
-21	503-0012		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 3/16 in. lg (SH)(SEMS)	
-22	503-0064		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 1 in. lg (SH)(SEMS)	
-23	17967		. POST	2
			--- * ---	
-24	17914		. . INSERT	1
			(ATTACHING PARTS)	
-25	162-0008		. . SCREW, Machine, fil h, brs, ni pl, No. 2-56 thd by 1/8 in. lg .	1
			--- * ---	
-26	323-0008		. . SETSCREW, Slotted, cap point, sst, No. 3-48 thd by 1/8 in. lg .	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
3-27	17908		POST	2
			(ATTACHING PARTS)	
-28	503-0012		SCREW, Assembled washer, bind. h, brs screw, sst lock- . .	1
			washer, ni pl, No. 3-48 thd by 3/16 in. lg (SH)(SEMS)	
-29	143-0012		SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 3/16 in. lg . .	1
			---*---	
-30	14403		RELAY ASSEMBLY (14V)	1
-30	14404		RELAY ASSEMBLY (28V)	1
			(ATTACHING PARTS)	
-31	503-0010		SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 3-48 thd by 5/32 in. lg (SH)(SEMS)	
			---*---	
-32	17971		PLATE, Supporting.	1
			(ATTACHING PARTS)	
-33	503-0012		SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	1
			washer, ni pl, No. 3-48 thd by 3/16 in. lg (SH)(SEMS)	
			---*---	
-34	17959		GEAR, Idler	1
-35	17935		WASHER	2
-36	17902		GEAR	1
			(ATTACHING PARTS)	
-37	314-0012		SETSCREW, Bristo, cone point, sst, No. 4-40 NC-3 thd by 3/16.	1
			in. lg	
-38	304-0012		SETSCREW, Bristo, cup point, sst, No. 4-40 NC-3 thd by 3/16 .	1
			in. lg	
			---*---	
-39	17935		WASHER	1
-40	17898		CAM	1
			(ATTACHING PARTS)	
-41	302-0006		SETSCREW, Bristo, cup point, sst, No. 2-56 NC-3 thd by 3/32 .	2
			in. lg	
			---*---	
-42	17895		GEAR	1
-43	17935		WASHER	AR
-44	17915		GEAR	4
-45	17905		GEAR	1
-46	17921		SPACER	1
-47	17899		SPACER	1
-48	17923		SHAFT, Main	1
			(ATTACHING PARTS)	
-49	17742		RING, Retaining (WKI)(5100-18-C)	1
-50	5142		WASHER	1
			---*---	
-51	5378		WASHER	1
-52	17888		SHAFT, Switch.	1
			(ATTACHING PARTS)	
-53	8775-0024		ROLL PIN (EN)(79-012-062-375)	2
-54	17889		COUPLING	1
			---*---	
-55	17922		PLATE, Bottom	1

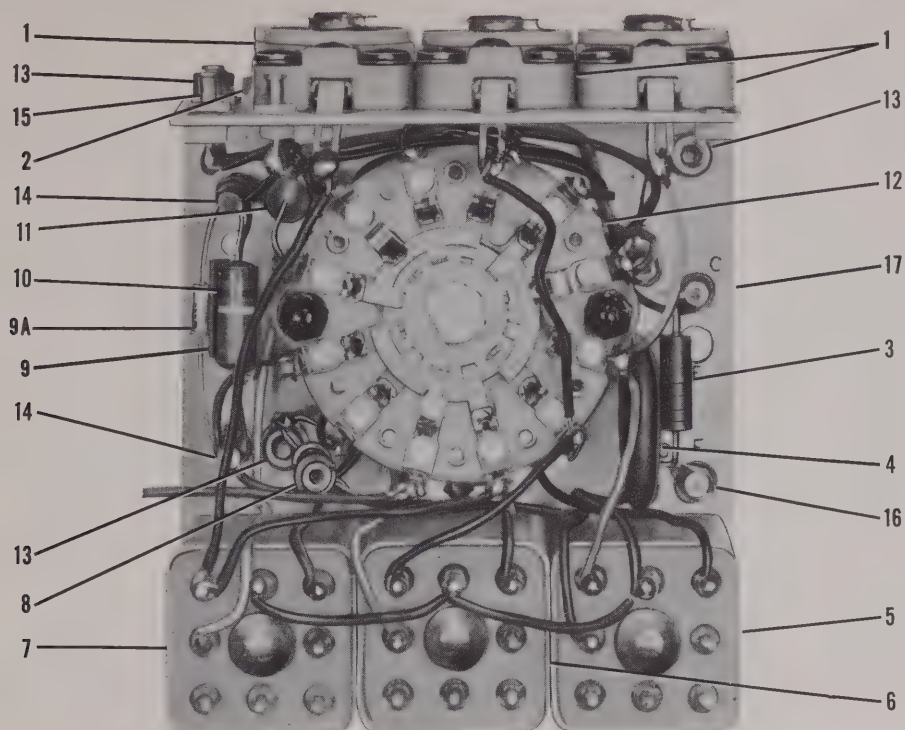


TP1300

Figure 4. Oscillator Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
4-	17910		OSCILLATOR SUBASSEMBLY (see 5, Figure 2)	Ref
-1	18076		. POST	2
			(ATTACHING PARTS)	
	502-0036		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			lockwasher, ni pl, No. 2-56 thd by 9/16 in. lg (SH)(SEMS)	
			-----*	
-2	8743		. CAPACITOR, Variable, ceramic, 3 to 12 pf, 500 vdcw (ERC) . .	3
			(T52A-3-NPO)	
			(ATTACHING PARTS)	
	103-0016		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 in. lg .	6
	13473		. WASHER, Spring tension	6
			-----*	
-3	17779		. BRACKET	1
			(ATTACHING PARTS)	
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	2
			washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS)	
			-----*	
-4	8706-0221		. CAPACITOR, Fixed, mica, 220 pf ± 2 per cent, 500 vdcw	1
			(EMM)(CM15D221G)	
-5	8750		. CAPACITOR, Fixed, ceramic, 12 pf ± 5 per cent, 350 vdcw . . .	1
			(ERC)(N1400A12J)	
-6	8851		. CAPACITOR, Fixed, electrolytic, 2 μ f +75 -15 per cent, 150 . .	1
			vdcw (SPR)(102D45)	
-7	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms ± 5 per cent, 1/2 w . . .	1
			(AB)(EB1045)	
-8	8769-9801		. CAPACITOR, Fixed, ceramic, 8 pf ± 0.25 pf, 500 vdcw	1
			(CC20UJ080C)	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
4-9	8749	.	CAPACITOR, Fixed, mica, 369 pf ± 1 per cent, 500 vdcw (EMM)(CM20E3690F)	1
-10	700-0122	.	ELECTRON TUBE, Type 5718	1
-11	21485-9101	.	CAPACITOR, Fixed, electrolytic, 1 μ f ± 20 per cent, 35 vdcw . . (SPR)(150D268B1)	1
-12	201-0222	.	RESISTOR, Fixed, comp, 2200 ohms ± 5 per cent, 1/2 w (AB) . . (EB2225)	1
-13	18621	.	TRANSFORMER, RF (Band I) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk. - - - * - - -	2
-14	18625	.	TRANSFORMER, RF (Band II) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk - - - * - - -	2
-15	18629	.	TRANSFORMER, RF (Band III) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk - - - * - - -	2
-16	8748-7450	.	CAPACITOR, Fixed, mica, 745 pf ± 1 per cent, 500 vdcw (EMM)(CM20E7450F)	1
-17	8618-1741	.	CAPACITOR, Fixed, mica, 1740 pf ± 2 per cent, 500 vdcw . . . (EMM)(CM35E1741G)	1
-18	201-0103	.	RESISTOR, Fixed, comp, 10,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB1035)	1
-19	17807	.	SWITCH, Rotary (OAK)(68972-JC) (ATTACHING PARTS)	1
	8040	.	NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2
	17527	.	WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 . . in. thk	6
	503-0020	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/16 in. lg (SH)(SEMS) - - - * - - -	2
-20	21151	.	SPRING	1
-21	14378	.	TERMINAL, Lug (ATTACHING PARTS)	1
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1
-22	17812	.	TERMINAL (WIQ)(M2TS7) (ATTACHING PARTS)	5
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	5
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	10
-23	14699	.	TERMINAL, Lug (ATTACHING PARTS)	1
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1
-24	17805-0910	.	TERMINAL, White, teflon (UGA)(CF-408)	4
-25	17806-0910	.	TERMINAL, White, teflon (UGA)(TE-405)	3
-26	17859	.	BRACKET	1

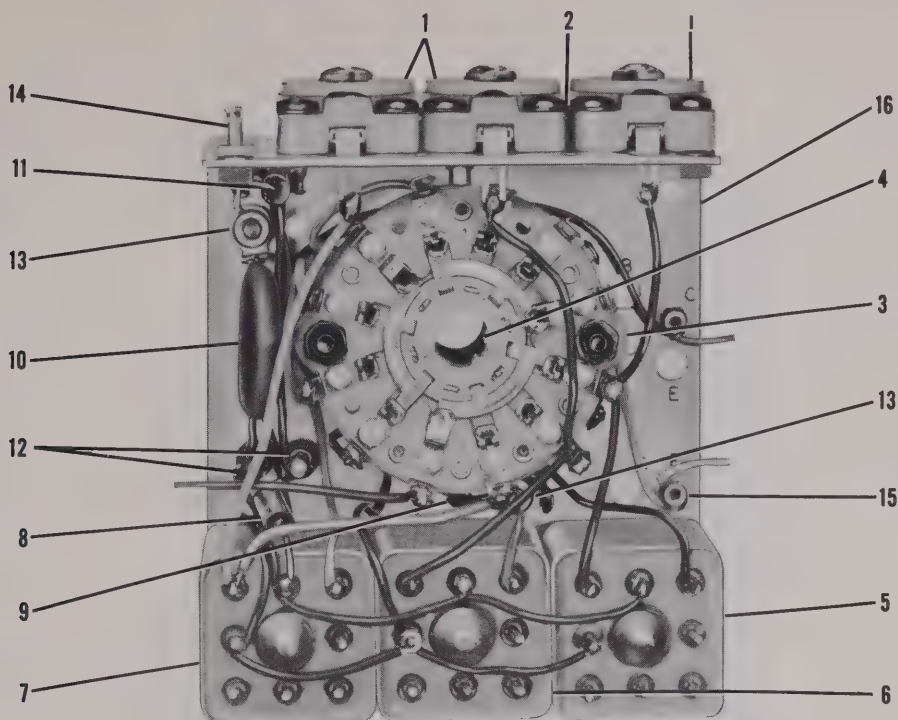


TP1302

Figure 5. Second RF Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
5- -1	17820 8743		RF SUBASSEMBLY, Second (see 8, Figure 2) CAPACITOR, Variable, ceramic, 3 to 12 pf, 500 vdcw (ERC) . . (T52A-3-NPO)	Ref 3
	103-0016		(ATTACHING PARTS) . SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 in. lg.	6
	13473		. WASHER, Spring tension	6
			- - - * - - -	
-2	17779		. BRACKET	1
			(ATTACHING PARTS)	
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
			- - - * - - -	
-3	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB1045)	1
-4	8627-9223		. CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 . vdcw (AB)(40-223W)	1
-5	18609		. TRANSFORMER, RF (Band I)	1
			(ATTACHING PARTS)	
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876		. WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk	2
			- - - * - - -	
-6	18613		. TRANSFORMER, RF (Band II)	1
			(ATTACHING PARTS)	
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876		. WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk	2
			- - - * - - -	
-7	18617		. TRANSFORMER, RF (Band III)	1
			(ATTACHING PARTS)	
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2

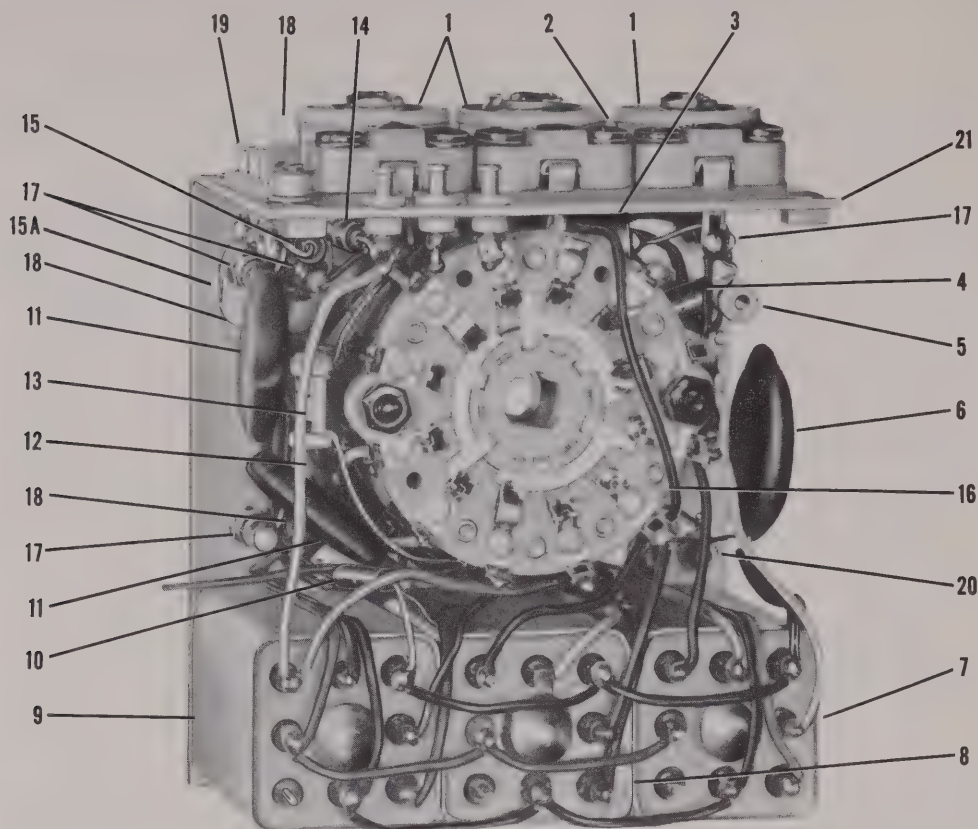
Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
	3876		. WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk - - - * - - -	2
5-8	8769-0200		. CAPACITOR, Fixed, ceramic, 20 pf ± 5 per cent, 500 vdcw . . . (CC20UJ200J)	1
-9	8926-0390		. CHOKE, RF, 39 μ h ± 10 per cent (DECN)(2890-34)	1
-9A	8765-0100		. CAPACITOR, Fixed, ceramic, 10 pf ± 0.25 per cent, 500 vdcw .	1
-10	14141		. CHOKE, RF, 3 μ h ± 10 per cent (JFE)(10100-652)	1
-11	8877-9101		. CHOKE, RF, 1 μ h ± 20 per cent (JFE)(10100-630)	1
-12	17807		. SWITCH, Rotary (OAK)(68972-JC) (ATTACHING PARTS)	1
	8040		. NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2
	17527		. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 . . in. thk	6
	503-0020		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/16 in. lg (SH)(SEMS) - - - * - - -	2
-13	14378		. TERMINAL, Lug (ATTACHING PARTS)	3
	503-0014		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103		. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	3
-14	17812		. TERMINAL (WIQ)(M2TS7) (ATTACHING PARTS)	2
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	4052		. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	4
-15	17805-0910		. TERMINAL, White, teflon (UGA)(CF-408)	4
-16	17806-0910		. TERMINAL, White, teflon (UGA)(TE-405)	4
-17	17813		. BRACKET	1
6-	17810		RF SUBASSEMBLY, First (see 11, Figure 2)	Ref
-1	8743		. CAPACITOR, Variable, ceramic, 3 to 12 pf, 500 vdcw (ERC) . . (T52A-3-NPO) (ATTACHING PARTS)	3
	103-0016		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 in. lg .	6
	13473		. WASHER, Spring tension - - - * - - -	6
-2	17779		. BRACKET (ATTACHING PARTS)	1
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS) - - - * - - -	2
-3	17807		. SWITCH, Rotary (OAK)(68972-JC) (ATTACHING PARTS)	1
	8040		. NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2
	17527		. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 . . in. thk	6
	503-0020		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/16 in. lg (SH)(SEMS) - - - * - - -	2
-4	21133		. STRAP, Bearing (ATTACHING PARTS)	1
	503-0014		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	2
	4103		. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	2



TP1304

Figure 6. First RF Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
6-5	18609	.	TRANSFORMER, RF (Band I)	1
		.	(ATTACHING PARTS)	
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -		
-6	18613	.	TRANSFORMER, RF (Band II)	1
		.	(ATTACHING PARTS)	
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -		
-7	18617	.	TRANSFORMER, RF (Band III)	1
		.	(ATTACHING PARTS)	
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -		
-8	201-0472	.	RESISTOR, Fixed, comp, 4700 ohms ± 5 per cent, 1/2 w (AB)	1
		.	(EB4725)	
-9	8769-0220	.	CAPACITOR, Fixed, ceramic, 22 pf ± 5 per cent, 500 vdcw	1
		.	(CC20UJ220J)	
-10	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500	1
		.	vdcw (AB)(40-223W)	
-11	201-0104	.	RESISTOR, Fixed, comp, 100,000 ohms ± 5 per cent, 1/2 w	1
		.	(AB)(EB1045)	
-12	17812	.	TERMINAL (WIQ)(M2TS7)	2
		.	(ATTACHING PARTS)	
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk	4
		.	(SH)(1702)	
		- - - * - - -		
-13	14378	.	TERMINAL, Lug	2
-14	17805-0910	.	TERMINAL, White, teflon (UGA)(CF-408)	3
-15	17806-0910	.	TERMINAL, White, teflon (UGA)(TE-405)	2
-16	17803	.	BRACKET	1

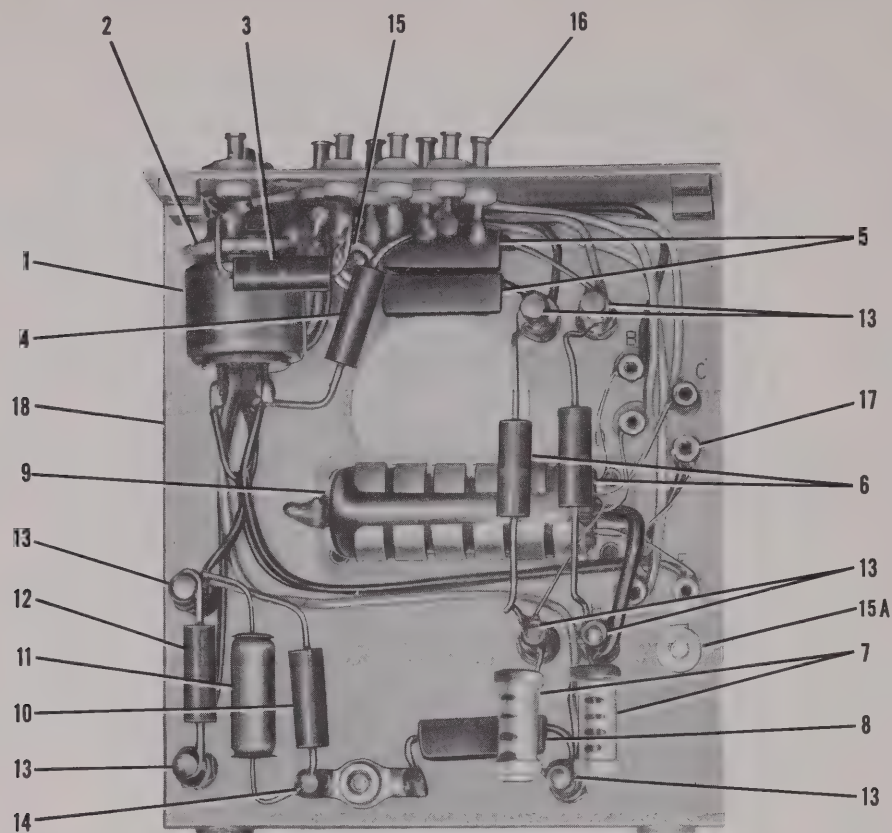


TP1306

Figure 7. Antenna Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
7- -1	18120 8743		ANTENNA SUBASSEMBLY (see 14, Figure 2) CAPACITOR, Variable, 3 to 12 pf, 500 vdcw (ERC) (T52A-3-NPO)	Ref 3
	103-0016		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 in. lg	6
	13473		. WASHER, Spring tension - - - * - - -	6
-2	17779		. BRACKET (ATTACHING PARTS)	1
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock- washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS) - - - * - - -	2
-3	8890-9473		. CAPACITOR, Fixed, paper, 0.047 μ f $\pm$ 20 per cent, 200 vdcw (SPR)(196P47302S4)	1
-4	201-0471		. RESISTOR, Fixed, comp, 470 ohms $\pm$ 5 per cent, 1/2 w (AB) (EB4715)	1
-5	8752		. CAPACITOR, Fixed, ceramic, 5 $\pm$ 0.5 pf, 350 vdcw (ERC) (N1400A5D)	1
-6	8627-9223		. CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 vdcw (AB)(40-223W)	1
-7	18748		. TRANSFORMER, RF (Band I) (ATTACHING PARTS)	1
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876		. WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 in. thk - - - * - - -	2

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
7-8	18752	.	TRANSFORMER, RF (Band II) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk - - - * - - -	2
-9	18756	.	TRANSFORMER, RF (Band III) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk - - - * - - -	2
-10	201-0103	.	RESISTOR, Fixed, comp, 10,000 ohms ± 5 per cent, 1/2 w (AB) . (EB1035)	1
-11	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 . vdcw (AB)(40-223W)	2
-12	700-0132	.	ELECTRON TUBE, Type 5899	1
-13	8760	.	CAPACITOR, Fixed, ceramic, 7 ± 0.5 pf, 350 vdcw (ERC) . . . (N1400A7D)	1
-14	201-0104	.	RESISTOR, Fixed, comp, 100,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB1045)	1
-15	201-0101	.	RESISTOR, Fixed, comp, 100 ohms ± 5 per cent, 1/2 w (AB) . . (EB1015)	1
-15A	21485-9101	.	CAPACITOR, Fixed, electrolytic, 1 μ f ± 20 per cent, 35 vdcw . . (SPR)(150D105X0035A2)	1
-16	17807	.	SWITCH, Rotary, ceramic (OAK)(68972-JC) (ATTACHING PARTS)	2
	8040	.	NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2
	17527	.	WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 . . in. thk	10
	19712	.	POST	2
	503-0016	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	2
-17	17812	.	TERMINAL (WIQ)(M2TS7) (ATTACHING PARTS)	4
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	4
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	8
-18	14378	.	TERMINAL, Lug (ATTACHING PARTS)	3
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	3
-19	17805-0910	.	TERMINAL, White, teflon (UGA)(CF-408)	10
-20	17806-0910	.	TERMINAL, White, teflon (UGA)(TE-405)	5
-21	18116	.	BRACKET	1



TP1308

Figure 8. Modulator Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
8- -1	17870-0001 8739		MODULATOR SUBASSEMBLY (see 17, Figure 2)	Ref
			. RESISTOR, Variable, 10,000 ohms ± 20 per cent, 0.33 w (AB)	1
			(GLU1032SD3028L)	
			(ATTACHING PARTS)	
	—		. LOCKNUT (AB)(M-4761) (supplied with 1, Figure 8)	1
	—		. NUT (AB)(M-4721) (supplied with 1, Figure 8)	1
	—		. WASHER, Lock (AB)(M-4748) (supplied with 1, Figure 8)	1
			-----*-----	
-2	19220		. BRACKET	1
			(ATTACHING PARTS)	
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock-	2
			washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS)	
			-----*-----	
-3	201-0473		. RESISTOR, Fixed, comp, 47,000 ohms ± 5 per cent, 1/2 w	1
			(AB)(EB4735)	
-4	201-0105		. RESISTOR, Fixed, comp, 1,000,000 ohms ± 5 per cent, 1/2 w	1
			(AB)(EB1055)	
-5	8706-0511		. CAPACITOR, Fixed, mica, 510 pf ± 2 per cent, 500 vdcw	2
			(EMM)(CM15D511G)	
-6	201-0334		. RESISTOR, Fixed, comp, 330,000 ohms ± 5 per cent, 1/2 w	2
			(AB)(EB3345)	
-7	4520		. CAPACITOR, Fixed, ceramic, 100 pf ± 5 per cent, 500 vdcw	2
			(ERC)(308)	
-8	8706-0331		. CAPACITOR, Fixed, mica, 330 pf ± 2 per cent, 500 vdcw	1
			(EMM)(VTCM15D331G)	
-9	700-0139		. ELECTRON TUBE, Type 6112	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
8-10	201-0223	.	RESISTOR, Fixed, comp, 22,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB2235)	1
-11	21485-9101	.	CAPACITOR, Fixed, electrolytic, 1 μ f ± 20 per cent, 35 vdcw. . (SPR)(150D268B1)	1
-12	201-0105	.	RESISTOR, Fixed, comp, 1,000,000 ohms ± 5 per cent, 1/2 w . . (AB)(EB1055)	1
-13	17812	.	TERMINAL (WIQ)(M2TS7) (ATTACHING PARTS)	7
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	7
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702)	14
			- - - * - - -	
-14	14699	.	TERMINAL, Lug (ATTACHING PARTS)	1
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
			- - - * - - -	
-15	14699	.	TERMINAL, Lug (ATTACHING PARTS)	1
	103-0012	.	SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 3/16 . . in. lg	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
			- - - * - - -	
-15A	14378	.	TERMINAL, Lug (ATTACHING PARTS)	1
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
			- - - * - - -	
-16	17805-0910	.	TERMINAL, White, teflon (UGA)(CF-408)	8
-17	17806-0910	.	TERMINAL, White, teflon (UGA)(TE-405)	6
-18	17856	.	BRACKET	1

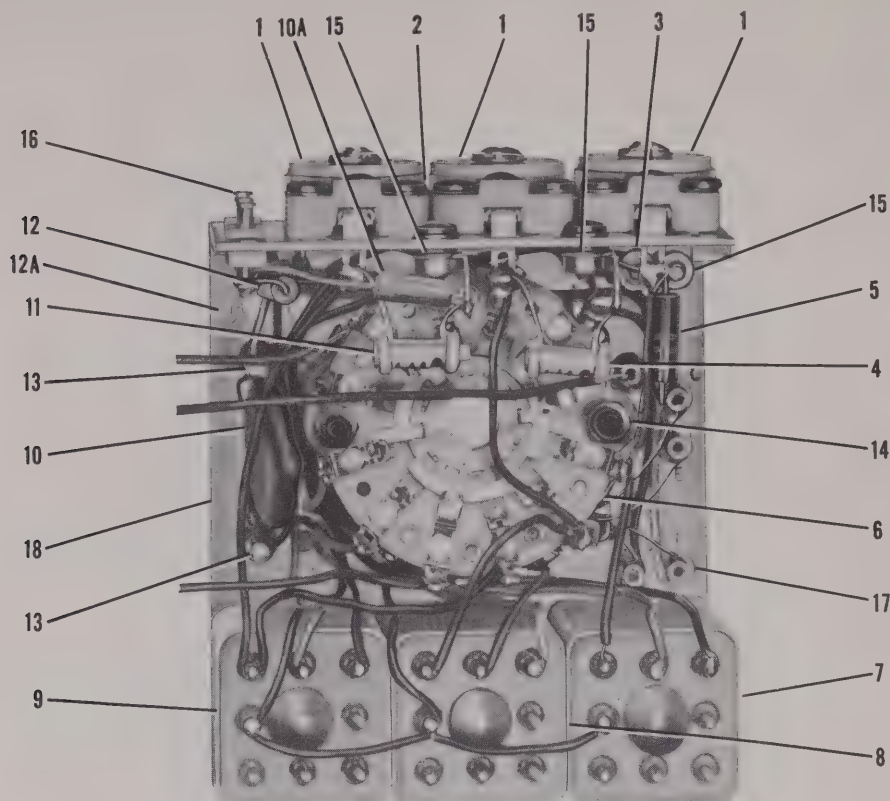


Figure 9. Loop Subassembly

TP1310

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
9- -1	17890 8743		LOOP SUBASSEMBLY (see 18, Figure 2)	Ref 3
			. CAPACITOR, Variable, ceramic, 3 to 12 pf, 500 vdcw (ERC) . . . (T52A-3-NPO)	
			(ATTACHING PARTS)	
	103-0016		. SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 1/4 . . . in. lg	6
	13473		. WASHER, Spring tension	6
			--- * ---	
-2	17779		. BRACKET	1
			(ATTACHING PARTS)	
	502-0010		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
			--- * ---	
-3	8751		. CAPACITOR, Fixed, ceramic, 15 pf ± 5 per cent, 350 vdcw . . . (ERC)(N1400A15J)	1
-4	21923		. CAPACITOR, Fixed, ceramic, 8 pf ± 5 per cent, 350 vdcw . . . (ERC)(N1400A8J)	1
-5	201-0471		. RESISTOR, Fixed, comp, 470 ohms ± 5 per cent, 1/2 w (AB) . . . (EB4715)	1
-6	700-0132		. ELECTRON TUBE, Type 5899	1
-7	18592		. TRANSFORMER, RF (Band I)	1
			(ATTACHING PARTS)	
	8275		. NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876		. WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk	2
			--- * ---	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
9-8	18601	.	TRANSFORMER, RF (Band II) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk	2
			- - - * - - -	
-9	18605	.	TRANSFORMER, RF (Band III) (ATTACHING PARTS)	1
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	3876	.	WASHER, Flat, brs, cad pl, 0.089 ID by 0.187 OD by 0.016 . . . in. thk	2
			- - - * - - -	
-10	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 . vdcw (AB)(40-223W)	1
-10A	8889-9102	.	CAPACITOR, Fixed, paper, 0.10 μ f $\pm$ 20 per cent, 100 vdcw . . (SPR)(196P10401S4)	1
-11	8752	.	CAPACITOR, Fixed, ceramic, 5 pf $\pm$ 0.5 pf, 350 vdcw (ERC) . . (N1400A5D)	1
-12	201-0124	.	RESISTOR, Fixed, comp, 120,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1245)	1
-12A	201-0221	.	RESISTOR, Fixed, comp, 220 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB2215)	1
-13	17812	.	TERMINAL (WIQ)(M2TS7) (ATTACHING PARTS)	2
	8275	.	NUT, Hexagon, brs, ni pl, No. 2-56 thd by 3/64 in. thk	2
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702)	4
			- - - * - - -	
-14	17807	.	SWITCH, Rotary, ceramic (OAK)(68972-JC) (ATTACHING PARTS)	1
	8040	.	NUT, Hexagon, brs, ni pl, No. 4-40 thd by 1/16 in. thk	2
	17527	.	WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 . . in. thk	6
	503-0020	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 5/32 in. lg (SH)(SEMS)	2
			- - - * - - -	
-15	14378	.	TERMINAL, Lug (ATTACHING PARTS)	3
	503-0014	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	3
			- - - * - - -	
-16	17805-0910	.	TERMINAL, White, teflon (UGA)(CF-408)	4
-17	17806-0910	.	TERMINAL, White, teflon (UGA)(TE-405)	6
-18	17858	.	BRACKET	1

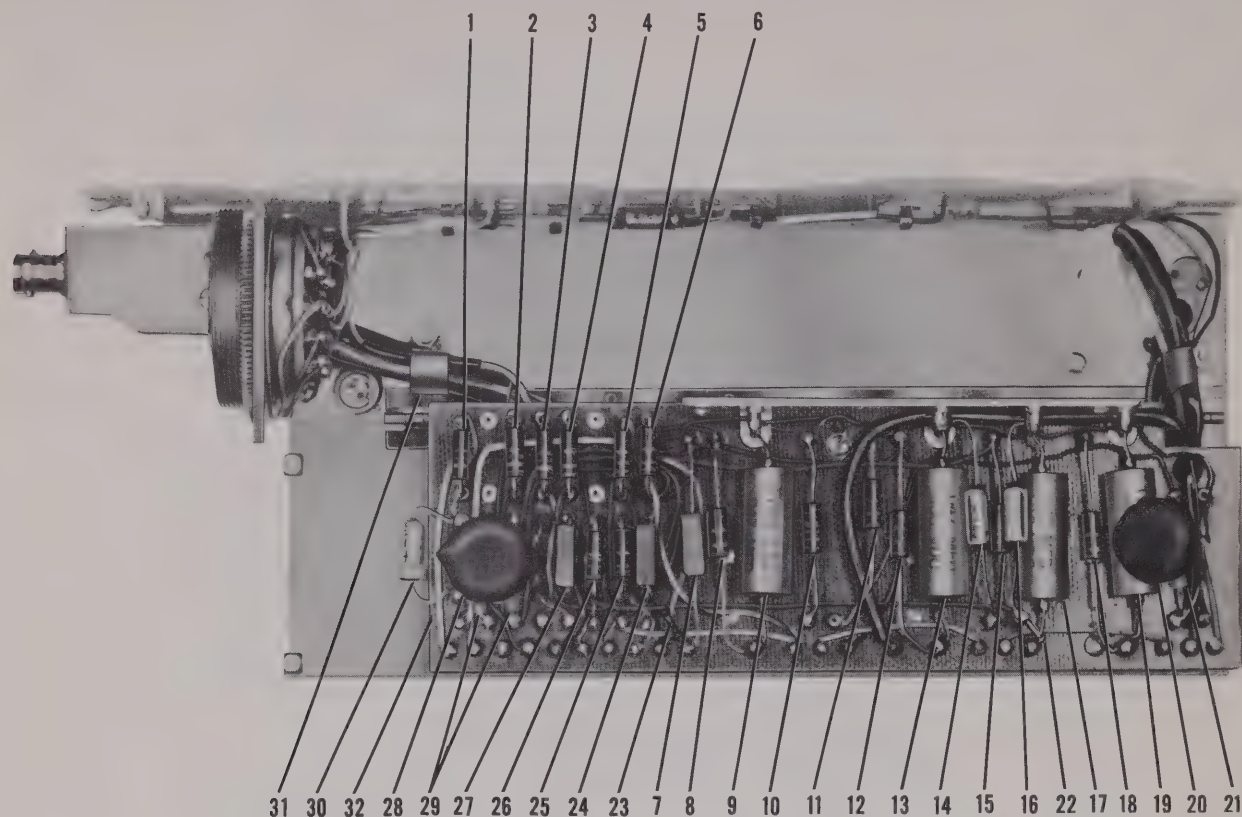


Figure 10. IF and AF Chassis Assembly, Bottom View

TP1312

Figure & Index No.	ARC Part No.	1 2 3 4 5 6						Description	Qty per Assy
		1	2	3	4	5	6		
10-	—	CHASSIS ASSEMBLY, IF and AF (see 21, Figure 2)							Ref
-1	201-0471	. RESISTOR, Fixed, comp, 470 ohms ± 5 per cent, 1/2 w (AB) . . . (EB4715)							1
-2	201-0474	. RESISTOR, Fixed, comp, 470,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB4745)							1
-3	201-0473	. RESISTOR, Fixed, comp, 47,000 ohms ± 5 per cent, 1/2 w (AB) . . (EB4735)							1
-4	201-0474	. RESISTOR, Fixed, comp, 470,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB4745)							1
-5	201-0224	. RESISTOR, Fixed, comp, 220,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB2245)							1
-6	201-0334	. RESISTOR, Fixed, comp, 330,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB3345)							1
-7	8706-0511	. CAPACITOR, Fixed, mica, 510 pf ± 2 per cent, 500 vdcw (EMM)(CM15D511G)							1
-8	201-0472	. RESISTOR, Fixed, comp, 4700 ohms ± 5 per cent, 1/2 w (AB) . . . (EB4725)							1
-9	8913-9683	. CAPACITOR, Fixed, paper, 0.068 μ f ± 20 per cent, 200 vdcw . . . (SPR)(118P68302S4)							1
-10	201-0331	. RESISTOR, Fixed, comp, 330 ohms ± 5 per cent, 1/2 w (AB) . . . (EB3315)							1
-11	201-0104	. RESISTOR, Fixed, comp, 100,000 ohms ± 5 per cent, 1/2 w . . . (AB)(EB1045)							1
-12	201-0222	. RESISTOR, Fixed, comp, 2200 ohms ± 5 per cent, 1/2 w (AB) . . . (EB2225)							1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
10-13	8913-9683	.	CAPACITOR, Fixed, paper, 0.068 μ f $\pm$ 20 per cent, 200 vdcw . . (SPR)(118P68302S4)	1
-14	21485-9101	.	CAPACITOR, Fixed, electrolytic, 1 μ f $\pm$ 20 per cent, 35 vdcw . . (SPR)(150D268B1)	1
-15	201-0121	.	RESISTOR, Fixed, comp, 120 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB1215)	1
-16	21485-9101	.	CAPACITOR, Fixed, electrolytic, 1 μ f $\pm$ 20 per cent, 35 vdcw . . (SPR)(150D268B1)	1
-17	8913-9683	.	CAPACITOR, Fixed, paper, 0.068 μ f $\pm$ 20 per cent, 200 vdcw . . (SPR)(118P68302S4)	1
-18	201-0471	.	RESISTOR, Fixed, comp, 470 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB4715)	1
-19	8913-9683	.	CAPACITOR, Fixed, paper, 0.068 μ f $\pm$ 20 per cent, 200 vdcw . . (SPR)(118P68302S4)	1
-20	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 vdcw (AB)(40-223W)	1
-21	201-0224	.	RESISTOR, Fixed, comp, 220,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB2245)	1
-22	200-0105	.	RESISTOR, Fixed, comp, 1,000,000 ohms $\pm$ 10 per cent, 1/4 w . . (AB)(CB1051)	1
-23	200-0104	.	RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 10 per cent, 1/4 w . . (AB)(CB1041)	1
-24	8706-0511	.	CAPACITOR, Fixed, mica, 510 pf $\pm$ 2 per cent, 500 vdcw (EMM)(CM15D511G)	1
-25	201-0224	.	RESISTOR, Fixed, comp, 220,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB2245)	1
-26	201-0155	.	RESISTOR, Fixed, comp, 1,500,000 ohms $\pm$ 5 per cent, 1/2 w . . (AB)(EB1555)	1
-27	8706-0331	.	CAPACITOR, Fixed, mica, 330 pf $\pm$ 2 per cent, 500 vdcw (EMM)(CM15D331G)	1
-28	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f +100 -0 per cent, 500 vdcw (AB)(40-223W)	1
-29	201-0222	.	RESISTOR, Fixed, comp, 2200 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB2225)	2
-30	8881-0100	.	CAPACITOR, Fixed, electrolytic, 10 μ f +50 -15 per cent, 25 vdcw (FML)(PP10B25A2)	1
-31	18186	.	CLIP (ATTACHING PARTS)	1
	502-0010	.	SCREW, Assembled washer, bind. h, brs screw, sst lock-washer, ni pl, No. 2-56 thd by 5/32 in. lg (SH)(SEMS) - - - * - - -	1
-32	18063	.	PLATE, Terminal (ATTACHING PARTS)	1
	142-0012	.	SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 3/16 in. lg . .	3
	502-0016	.	SCREW, Assembled washer, bind. h, brs screw, sst lock-washer, ni pl, No. 2-56 thd by 1/4 in. lg (SH)(SEMS)	2
	18068	.	POST	3
	102-0016	.	SCREW, Machine, bind. h, brs, ni pl, No. 2-56 thd by 1/4 in. lg	1
	13473	.	WASHER, Spring tension	1
	3873	.	TERMINAL, Lug	1
	4052	.	WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702) - - - * - - -	1

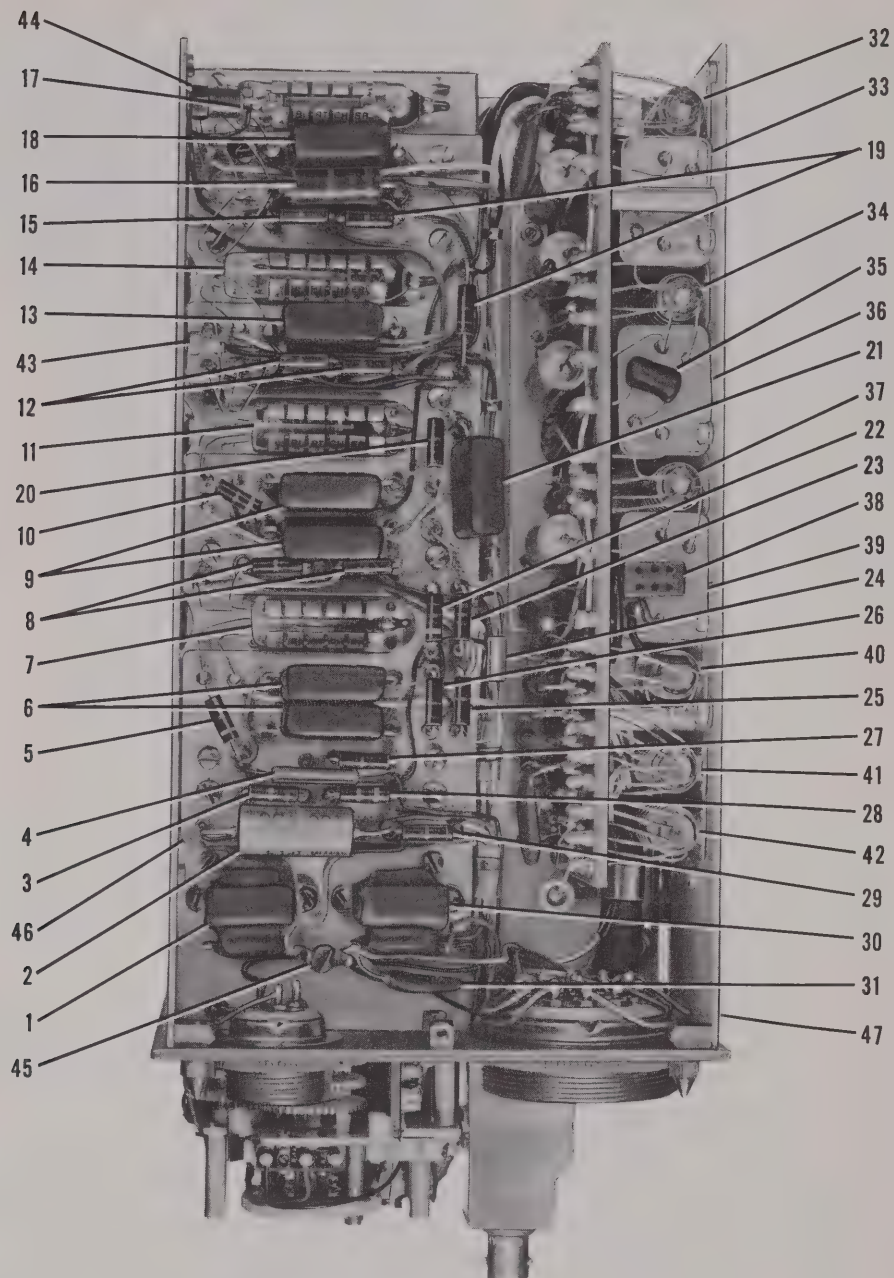


Figure 11. Chassis Assembly, Bottom Interior View

TP1314A

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
11-	---		CHASSIS ASSEMBLY (see 21, Figure 2)	Ref
-1	18053		. TRANSFORMER, Modulation (CMPB)(L1673) (ATTACHING PARTS)	1
	163-0012		. SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 3/16 in. lg . - - - * - - -	2
-2	8802		. CAPACITOR, Fixed, film, 0.1 μ f $\pm$ 5 per cent, 50 vdcw (CLD) . . (TWMA1P1-5-5)	1
-3	201-0514		. RESISTOR, Fixed, comp, 510,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB5145)	1
-4	8835		. CAPACITOR, Fixed, plastic, 0.01 μ f $\pm$ 20 per cent, 300 vdcw . . (CLD)(TWA3S1-10)	1
-5	201-0272		. RESISTOR, Fixed, comp, 2700 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB2725)	1
-6	8618-0103		. CAPACITOR, Fixed, mica, 0.01 μ f $\pm$ 2 per cent, 500 vdcw . . . (EMM)(CM35E103G)	2
-7	700-0122		. ELECTRON TUBE, Type 5718	1
-8	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1045)	2
-9	8618-0103		. CAPACITOR, Fixed, mica, 0.01 μ f $\pm$ 2 per cent, 500 vdcw . . . (EMM)(CM35E103G)	2
-10	201-0272		. RESISTOR, Fixed, comp, 2700 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB2725)	1
-11	700-0136		. ELECTRON TUBE, Type 6021	1
-12	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1045)	2
-13	8618-0103		. CAPACITOR, Fixed, mica, 0.01 μ f $\pm$ 2 per cent, 500 vdcw . . . (EMM)(CM35E103G)	1
-14	700-0133		. ELECTRON TUBE, Type 5902	1
-15	201-0303		. RESISTOR, Fixed, comp, 30,000 ohms $\pm$ 5 per cent, 1/2 w (AB) . (EB3035)	1
-16	203-0331		. RESISTOR, Fixed, comp, 330 ohms $\pm$ 5 per cent, 2 w (AB) . . . (HB3315)	1
-17	700-0133		. ELECTRON TUBE, Type 5902	1
-18	8618-0103		. CAPACITOR, Fixed, mica, 0.01 μ f $\pm$ 2 per cent, 500 vdcw . . . (EMM)(CM35E103G)	1
-19	201-0514		. RESISTOR, Fixed, comp, 510,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB5145)	2
-20	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1045)	1
-21	8618-0103		. CAPACITOR, Fixed, mica, 0.01 μ f $\pm$ 2 per cent, 500 vdcw . . . (EMM)(CM35E103G)	1
-22	201-0474		. RESISTOR, Fixed, comp, 470,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB4745)	1
-23	201-0334		. RESISTOR, Fixed, comp, 330,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB3345)	1
-24	21485-9101		. CAPACITOR, Fixed, electrolytic, 1 μ f $\pm$ 20 per cent, 35 vdcw . . (SPR)(150D268B1)	1
-25	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1045)	1
-26	201-0514		. RESISTOR, Fixed, comp, 510,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB5145)	1
-27 ²	201-0223		. RESISTOR, Fixed, comp, 22,000 ohms $\pm$ 5 per cent, 1/2 w (AB) . (EB2235)	1
-28	201-0473		. RESISTOR, Fixed, comp, 47,000 ohms $\pm$ 5 per cent, 1/2 w (AB) . (EB4735)	1
-29	201-0104		. RESISTOR, Fixed, comp, 100,000 ohms $\pm$ 5 per cent, 1/2 w . . . (AB)(EB1045)	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
11-30	18052	.	TRANSFORMER, Output (CMPB)(L1671)	1
			(ATTACHING PARTS)	
	163-0012	.	SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 3/16 in. lg .	2
			- - - * - - -	
-31	8626-9474	.	CAPACITOR, Fixed, ceramic, 0.0047 μ f +100 -0 per cent, . . .	1
			500 vdcw	
-32	700-0132	.	ELECTRON TUBE, Type 5899	1
-33	18171	.	TRANSFORMER, IF (First)	1
			(ATTACHING PARTS)	
	142-0012	.	SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 3/16 in. lg . .	1
			- - - * - - -	
-34	700-0132	.	ELECTRON TUBE, Type 5899	1
-35	8791-9101	.	CAPACITOR, Fixed, ceramic, 1 pf $\pm$ 0.25 pf, 500 vdcw	1
			(CC20HK010C)	
-36	18171	.	TRANSFORMER, IF (Second)	1
			(ATTACHING PARTS)	
	142-0012	.	SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 3/16 in. lg . .	1
			- - - * - - -	
-37	700-0132	.	ELECTRON TUBE, Type 5899	1
-38	8706-0221	.	CAPACITOR, Fixed, mica, 220 pf $\pm$ 2 per cent, 500 vdcw	1
			(EMM)(CM15D221G)	
-39	18173	.	TRANSFORMER, IF (Third)	1
			(ATTACHING PARTS)	
	142-0012	.	SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 3/16 in. lg . .	1
			- - - * - - -	
-40	700-0131	.	ELECTRON TUBE, Type 5896	1
-41	700-0136	.	ELECTRON TUBE, Type 6021	1
-42	700-0133	.	ELECTRON TUBE, Type 5902	1
-43	14378	.	TERMINAL, Lug	2
			(ATTACHING PARTS)	
	143-0012	.	SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 3/16 in. lg . .	2
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . .	2
			(SH)(1703)	
			- - - * - - -	
-44	18045	.	TERMINAL, Standoff (WIQ)(766)	1
			(ATTACHING PARTS)	
	144-0016	.	SCREW, Machine, fh, brs, ni pl, No. 4-40 thd by 1/4 in. lg . .	1
	8497	.	WASHER, Lock, sst, 0.119 ID by 0.260 OD by 0.029 in. thk . . .	1
			(SH)(1704)	
			- - - * - - -	
-45	9542	.	TERMINAL, Lug	1
			(ATTACHING PARTS)	
	103-0012	.	SCREW, Machine, bind. h, brs, ni pl, No. 3-48 thd by 3/16 . .	1
			in. lg	
	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . .	1
			(SH)(1703)	
			- - - * - - -	
-46	18072	.	PLATE, Terminal	1
			(ATTACHING PARTS)	
	503-0018	.	SCREW, Assembled washer, bind. h, brs screw, sst lock- . . .	5
			washer, ni pl, No. 3-48 thd by 9/32 in. lg (SH)(SEMS)	
	163-0018	.	SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 9/32 in. lg .	1
	18054	.	PLATE, Insulating	1
			- - - * - - -	
-47	18040	.	CHASSIS	1

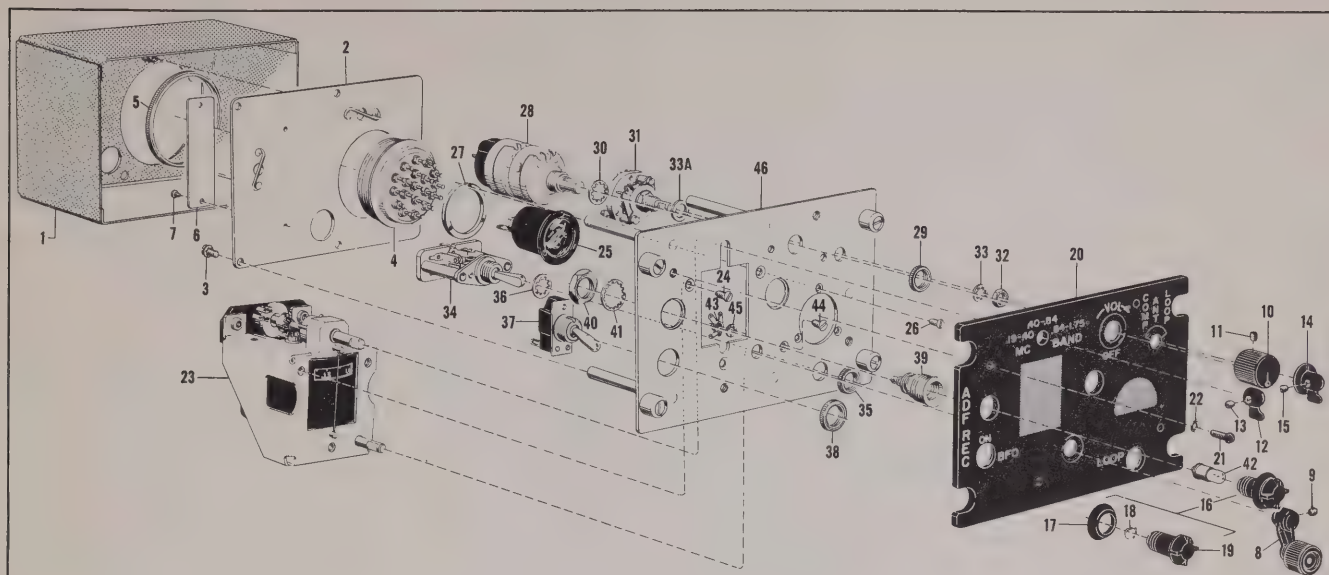
REFERENCE DESIGNATION INDEX

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C103	8743	9-1
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C105	21923	9-4
C106	8752	9-11
C107A-E	18688	2-19
C108	8627-9223	9-10
C109	8706-0331	8-8
C110	8706-0511	8-5
C111	4520	8-7
C112	4520	8-7
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C126	8743	6-1
C127	8743	6-1
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C129	8769-0200	5-8
C130	8743	5-1
C131	8743	5-1
C132	8743	5-1
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C161	8706-0511	10-7
C162	8706-0221	11-38
C163	8706-0511	10-24
C164	21485-9101	10-16
C165	8706-0331	10-27
C166	8627-9223	10-28
C167	8881-0100	10-30
C168	8618-0103	11-6
C169	8618-0103	11-6
C170	8618-0103	11-9
C171	8618-0103	11-9
C172	8618-0103	11-21
C173	8618-0103	11-18
C174	8618-0103	11-13
C175	8626-9474	11-31
C176	8706-0151	1-8
C177	8791-9101	11-35
C178	21485-9101	11-24
C181	8835	11-4
C182	8627	3-4A
C183	8889-9102	9-10A
C184	21485-9101	7-15A
C185	8765-0100	5-9A
J101	12426	1-12
J102	15185	1-7
J103	12357	1-11
K101	14403 14404	3-30
K102	12712 12713	1-9 1-9
L101	8926-0390	5-9
L102	14141	5-10
L103	8877-9101	5-11
L104	8877-9472	3-19A
R101	201-0471	9-5
R102	201-0124	9-12
R103	201-0473	8-3
R104	201-0105	8-12
R105	201-0334	8-6
R106	201-0334	8-6
R107	201-0104	11-29
R108	8739	8-1
R109	201-0105	8-10
R110	201-0473	11-28
R111	201-0103	7-10
R112	201-0104	7-14
R113	201-0471	7-4
R114	201-0104	6-11
R115	201-0472	6-8
R116	201-0104	5-3

Reference Designation	Part No.	Figure & Index No.
R117	201-0104	4-7
R118	201-0103	4-18
R119	201-0222	4-12
R120	201-0224	10-21
R121	201-0471	10-18
R123	201-0121	10-15
R124	201-0104	10-11
R125	201-0222	10-12
R127	200-0105	10-22
R128	201-0331	10-10
R129	201-0472	10-8
R130	200-0104	10-23
R131	201-0334	10-6
R132	201-0224	10-25
R133	201-0224	10-5
R134	201-0155	10-26
R135	201-0474	10-4
R136	201-0222	10-29
R137	201-0222	10-29
R138	201-0473	10-3
R139	201-0474	10-2
R140	201-0471	10-1
R141	201-0514	11-26
R142	201-0514	11-3
R143	201-0102	11-27
	201-0223	
R145	201-0272	11-5
R146	201-0104	11-8
R147	201-0104	11-8
R148	201-0104	11-20
R149	201-0474	11-22
R150	201-0272	11-10
R151	201-0104	11-12
R152	201-0104	11-12
R153	201-0514	11-19
R154	201-0303	11-15
R155	201-0514	11-19
R156	203-0331	11-16
R157	201-0101	7-15
R158	201-0105	8-4
R159	201-0334	11-23
R160	201-0104	11-25
R163	201-0221	9-12A
S101A-D	17807	9-14
S102A-D	17807	7-16
S103A-D	17807	7-16
S104A-D	17807	6-3
S105A-D	17807	5-12
S106A-D	17807	4-19
S107	21967	3-13

Reference Designation	Part No.	Figure & Index No.
S108	17924	3-5
T101	18592	9-7
T102	18601	9-8
T103	18605	9-9
T104	18053	1-1
T105	18748	7-7
T106	18752	7-8
T107	18756	7-9
T108	18609	6-5
T109	18613	6-6
T110	18617	6-7
T111	18609	5-5
T112	18613	5-6
T113	18617	5-7
T114	18621	4-13
T115	18625	4-14
T116	18629	4-15
T120	18052	11-30
V101	700-0132	9-6
V102	700-0139	8-9
V103	700-0132	7-12
V104	700-0122	4-10
V105	700-0132	11-32
V106	700-0132	11-34
V107	700-0132	11-37
V108	700-0131	11-40
V109	700-0136	11-41
V110	700-0133	11-42
V111	700-0122	11-7
V112	700-0136	11-11
V113	700-0133	11-17
V114	700-0133	11-14
Z101	17890	2-18
		9-
Z102	17870	2-17
		8-
Z103	18120	2-14
		7-
Z104	17810	2-11
		6-
Z105	17820	2-8
		5-
Z106	17910	2-5
		4-
Z107	18171	11-33
Z108	18171	11-36
Z109	18173	11-39
Z110	17930(*)	1-4
		3-
Z111	20639	2-2



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Figure 12. C-59A Control Unit, Exploded View

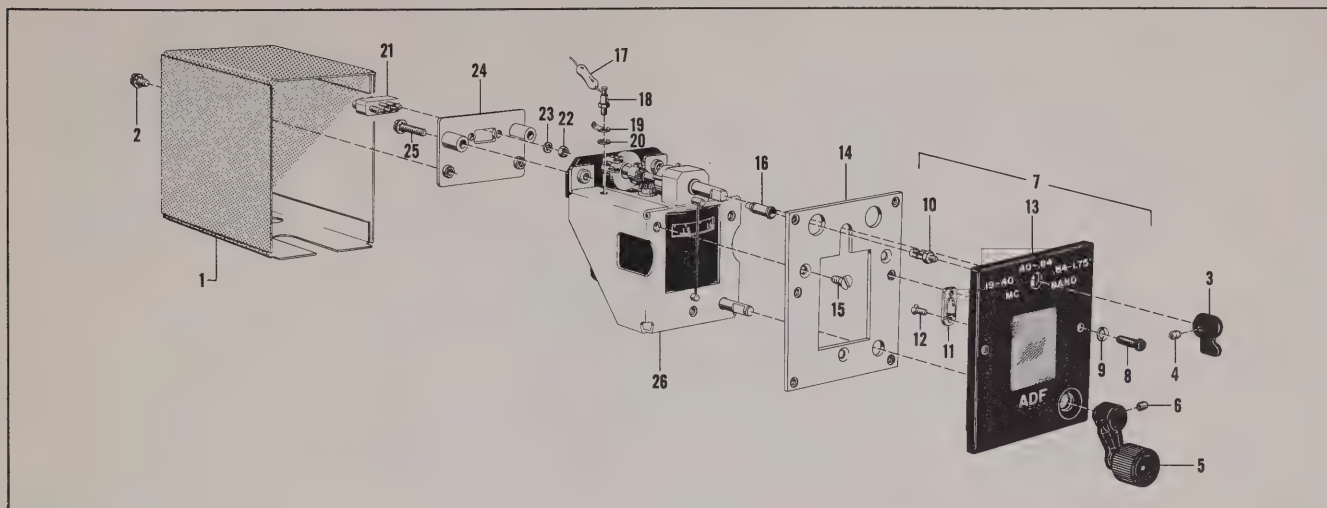
Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
12-	20500		CONTROL UNIT ASSEMBLY, ARC Type C-59A	
-1	18249		. COVER ASSEMBLY.	1
-2	18241		. PLATE ASSEMBLY, Mounting	1
			(ATTACHING PARTS)	
-3	503-0012		. SCREW, Machine, bind. h, brs screw, sst lockwasher, ni pl, ...	5
			No. 3-48 thd by 3/16 in. lg (SH)(SEMS)	
			- - - * - - -	
-4	12357		. CONNECTOR, Receptacle, electrical.	1
			(ATTACHING PARTS)	
-5	5310		. NUT, Knurled (supplied with 4, Figure 12)	1
			- - - * - - -	
-6	21955		. NAMEPLATE	1
			(ATTACHING PARTS)	
-7	8081		. SCREW, Tapping, thd forming, rd hd, Phillips dr, stl, blk	2
			Parkerized fin, No. 2 by 5/32 in. lg	
			- - - * - - -	
-8	10021		. CRANK ASSEMBLY.	1
			(ATTACHING PARTS)	
-9	306-0008		. SETSCREW, Bristo dr, cup point, sst, No. 6-32 thd by 1/8	1
			in. lg (supplied with 8, Figure 12)	
			- - - * - - -	
-10	16331		. KNOB ASSEMBLY	1
			(ATTACHING PARTS)	
-11	306-0012		. SETSCREW, Bristo dr, cup point, sst, No. 6-32 thd by 3/16	2
			in. lg (supplied with 10, Figure 12)	
			- - - * - - -	
-12	5444		. LEVER	1
			(ATTACHING PARTS)	
-13	306-0008		. SETSCREW, Bristo dr, cup point, sst, No. 6-32 thd by 1/8	1
			in. lg (supplied with 12, Figure 12)	
			- - - * - - -	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
12-14	20562	.	LEVER, Machined (ATTACHING PARTS)	1
-15	304-0008	.	SETSCREW, Bristo dr, cup point, sst, No. 4-40 thd by 1/8. . . in. lg (supplied with 14, Figure 12) - - - * - - -	1
-16	---	.	LAMP HOUSING ASSEMBLY (part of 39, Figure 12) (GMC) . . . (A-5181)	1
-17	---	.	GROMMET, Panel light (part of 39, Figure 12) (GMC. (A-4846A)	1
-18	---	.	SPRING, Lamp retainer (part of 39, Figure 12) (GMC)(A-3674).	1
-19	---	.	LAMP HOUSING AND FILTER ASSEMBLY (part of 39, ... Figure 12) (GMC)(A-5178)	1
-20	20504	.	PANEL, Plastic (ATTACHING PARTS)	1
-21	113-0024	.	SCREW, Machine, bind. h, brs, blk oxidized, No. 3-48 thd. . . by 3/8 in. lg	2
-22	10353	.	WASHER, Spring tension, be cop, ni pl, 0.109 ID by 0.219 OD. . by 0.0126 in. thk - - - * - - -	2
-23	18480	.	GEARING ASSEMBLY, Dial (ATTACHING PARTS)	1
-24	154-0016	.	SCREW, Machine, fh, brs, blk oxidized, No. 4-40 thd by 1/4. . in. lg - - - * - - -	1
-25	18428	.	MILLIAMMETER, 15 MA, Model 104 (ININ). (ATTACHING PARTS)	1
-26	152-0016	.	SCREW, Machine, fh, brs, blk oxidized, No. 2-56 thd by 1/4. . in. lg	3
-27	18546	.	RING - - - * - - -	1
-28	8776	.	RESISTOR, Variable (ATTACHING PARTS)	1
-29	4697	.	NUT, Serrated, brs, ni pl, 3/8-32 thd by 0.094 in. thk	1
-30	13110	.	WASHER, Flat, 0.380 ID by 0.562 OD by 0.020 in. thk - - - * - - -	1
-31	19982	.	SWITCH, Rotary (ATTACHING PARTS)	1
-32	---	.	NUT, Hexagon, double chamfered, 1/4-32 thd by 0.062 in. thk . (supplied with 31, Figure 12)	1
-33	---	.	WASHER, Lock, for 1/4 in. screw (supplied with 31, Figure 12).	1
-33A	10643	.	WASHER, Flat, sst, 0.257 ID by 0.406 OD by 0.010 in. thk . . . - - - * - - -	1
-34	20452	.	SWITCH, Assembly. (ATTACHING PARTS)	1
-35	4697	.	NUT, Serrated, brs, ni pl, 3/8-32 thd by 0.094 in. thk (supplied with 34, Figure 12)	1
-36	8540	.	WASHER, Lock, ph brz, ni pl, 0.384 ID by 0.500 OD by 0.030 . . in. thk (SH)(1920-02) - - - * - - -	1
-37	8084	.	SWITCH, Toggle (CUT)(8908K142) (ATTACHING PARTS)	1
-38	23245	.	NUT, Knurled, 15/32-32 thd. - - - * - - -	1
-39	16293	.	LIGHT ASSEMBLY, Panel (GMC)(A-590) (ATTACHING PARTS)	2
-40	---	.	NUT, Hexagon, 15/32-32 thd (supplied with 39, Figure 12) . . .	2
-41	---	.	WASHER, Lock (supplied with 39, Figure 12) - - - * - - -	2

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Qty per Assy
12-42	8622	. LAMP, 28V, T-1-3/4 bulb, S.C. midget flange base, No. . . . 327 (GE)	2
-43	20789	. TERMINAL ASSEMBLY (ATTACHING PARTS)	1
-44	153-0016	. SCREW, Machine, fh, brs, blk oxidized, No. 3-48 thd by 1/4 . . in. lg	1
-45	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1
-46	20700	. PANEL ASSEMBLY	1
12-	21760	. LAMP KIT (14V)	AR
	8679	. . LAMP (14V)	2

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
DS201	12-42	8622
DS202	12-42	8622
J201	12-4	12357
M201	12-25	18428
R201A	12-28	8776
R201B	12-28	8776
S201	12-34	20452
S202	12-28	P/O 8776
S203	12-23	P/O 18480
S204	12-31	19982
S205	12-37	8084
XDS201	12-39	16293
XDS202	12-39	16293



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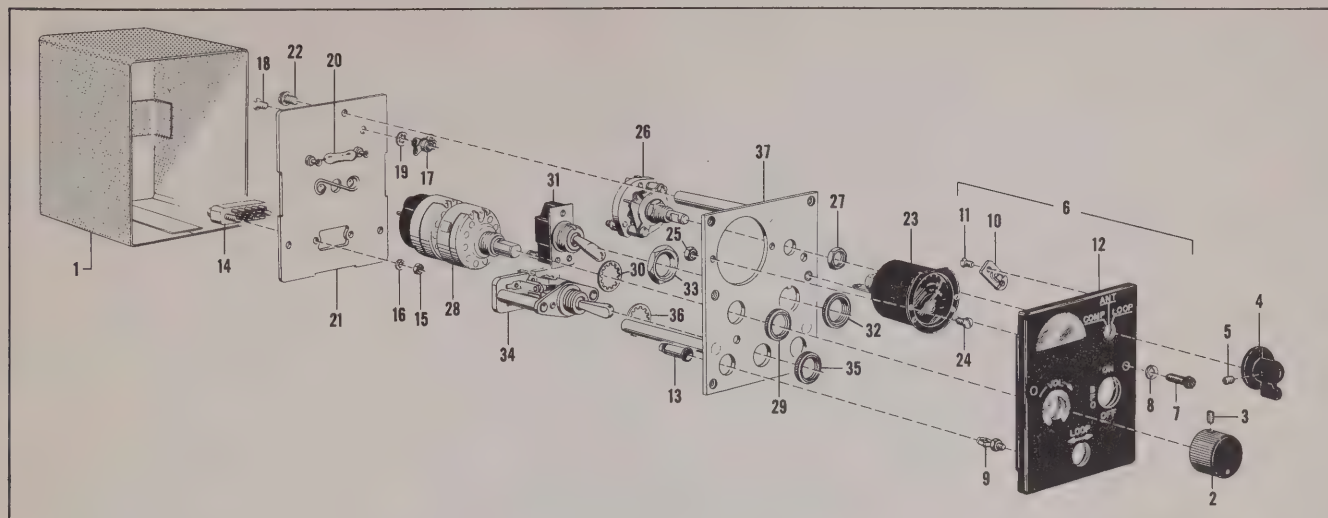
Figure 13. CC-14A Control Unit, Exploded View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
13-	26891		CONTROL UNIT, ARC Type CC-14A	
-1	26901		. COVER	1
			(ATTACHING PARTS)	
-2	513-0016		. SCREW, Assembled washer, bind. h, brs screw, blk oxidized, ... sst lockwasher, No. 3-48 thd by 1/4 in. lg (SH)(SEMS)	2
			- - - * - - -	
-3	28107		. KNOB	1
			(ATTACHING PARTS)	
-4	304-0006		. SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. 4-40 thd by 3/32 in. lg	2
			- - - * - - -	
-5	10021		. CRANK ASSEMBLY.	1
			(ATTACHING PART)	
-6	306-0008		. SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. 6-32 thd by 1/8 in. lg	1
			- - - * - - -	
-7	26892		. PANEL, Printed	1
			(ATTACHING PARTS)	
-8	113-0032		. SCREW, Machine, bind. h, brs, blk oxidized, No. 2-38 thd by 1/2 in. lg	2
-9	10353		. WASHER, Spring tension	2
			- - - * - - -	
-10	27196		. . JACK, Tip.	2
-11	29447		. . LIGHT ASSEMBLY (USR)(LP-9023-E-R)	3
			(ATTACHING PARTS)	
-12	—		. . SCREW, Machine, fh, brs, No. 0-80 thd (supplied with 29447).	6
			- - - * - - -	
-13	—		. . PANEL, Front, consists of one (1) 26893 panel and two (2) 29462 inserts	1
-14	27043		. PANEL ASSEMBLY.	1
			(ATTACHING PARTS)	
-15	154-0016		. SCREW, Machine, fh, brs, blk oxidized, No. 4-40 thd by 1/4 in. lg	3
			- - - * - - -	
-16	20416		. PLUG, Tip	2

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
13-17	209-0221	.	RESISTOR, Fixed, ww, 220 ohms ± 3 per cent, 3 w.	1
-18	27556	.	INSULATOR, Standoff (WIQ)(M5TS7)	1
-19	3873	.	TERMINAL, Lug	1
-20	4052	.	WASHER, Lock (SH)(1702)	1
-21	27823-0005	.	CONNECTOR, Receptacle, electrical (USC)(SMI-5M2SL-DM30) . (ATTACHING PARTS)	1
-22	—	.	NUT, Hexagon, No. 3-48 thd (supplied with 27823-0005)	2
-23	—	.	WASHER, Lock, No. 3 (supplied with 27823-0005) - - - * - - -	2
-24	26896	.	PLATE ASSEMBLY, Terminal. (ATTACHING PARTS)	1
-25	503-0040	.	SCREW, Assembled washer, bind. h, brs screw, ni pl, sst . . . lockwasher, No. 3-48 thd by 5/8 in. lg (SH)(SEMS) - - - * - - -	2
-26	27640	.	GEARING UNIT ASSEMBLY, Dial	1

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
DS1	13-11	29447
DS2	13-11	29447
DS3	13-11	29447
J1	13-21	27823-0005
J2	13-10	27196
J3	13-10	27196
P1	13-16	20416
P2	13-16	20416
R1	13-17	209-0021
S1	13-26	27640



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Figure 14. CC-15A Control Unit, Exploded View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
14-	26904		CONTROL UNIT, ARC Type CC-15A	
-1	26911		. COVER ASSEMBLY.	1
-2	16331		. KNOB	1
			(ATTACHING PARTS)	
-3	306-0012		. SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. 6-32 . thd by 3/16 in. lg - - - * - - -	2
-4	20562-0000		. KNOB	1
			(ATTACHING PARTS)	
-5	304-0008		. SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. 4-40 . thd by 3/16 in. lg - - - * - - -	2
-6	26907		. PANEL, Printed	1
			(ATTACHING PARTS)	
-7	113-0032		. SCREW, Machine, bind. h, brs, blk oxidized, No. 3-48 thd by . . 1/2 in. lg	2
-8	10353		. WASHER, Spring tension	2
			- - - * - - -	
-9	27196		. . JACK, Tip	2
-10	29447		. . LIGHT ASSEMBLY (USR)(LP-9023-E-R)	3
			(ATTACHING PARTS)	
-11	—		. . SCREW, Machine, fh, brs, No. 0-80 thd (supplied with 29447). - - - * - - -	6
-12	—		. . PANEL, consists of one (1) 26909 panel front, one (1) 26908 . panel rear, and two (2) 29462 inserts	1
-13	20416		. PLUG, Tip	2
-14	27823-0014		. CONNECTOR, Receptacle, electrical (USC)(SMI-14M2SL-DM30). (ATTACHING PARTS)	1
-15	—		. NUT, Hexagon, No. 3-48 thd (supplied with 27823-0014)	2
-16	—		. WASHER, Lock, No. 3 (supplied with 27823-0014)	2
			- - - * - - -	
-17	20789		. TERMINAL ASSEMBLY	1
			(ATTACHING PARTS)	
-18	153-0012		. SCREW, Machine, fh, brs, blk oxidized, No. 3-48 thd by 3/16 . in. lg	1
-19	4103		. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
14-20	209-0006	.	RESISTOR, Fixed, ww, 126 ohms ± 3 per cent, 3 w (DABU) . . . (RS-2B)	1
-21	26905	.	PLATE ASSEMBLY, Mounting (ATTACHING PARTS)	1
-22	503-0012	.	SCREW, Assembled washer, bind. h, brs screw, ni pl, sst . . . lockwasher, No. 3-48 thd by 3/16 in. lg (SH)(SEMS) - - - * - - -	3
-23	26913	.	MILLIAMMETER (ATTACHING PARTS)	1
-24	102-0012	.	SCREW, Machine, bind. h, brs, ni pl, No. 2-56 thd by 3/16 . . in. lg	2
-25	—	.	NUT, Hexagon, No. 2 (supplied with 26913) - - - * - - -	2
-26	26915	.	SWITCH, Rotary, one section, three positions, one shorting, . . one non-shorting (CN)(SERIES 100) (ATTACHING PART)	1
-27	—	.	NUT, Hexagon, 5/16 in. across flats by 0.062 in. thk, 1/4-32 . . thd (supplied with 26915) - - - * - - -	1
-28	26914	.	RESISTOR, Variable, comp, three sections; first section . . . 100,000 ohms ± 10 per cent; second section 50,000 ohms ± 10 per cent; third section SPST switch 2 amp at 125V (AB)(Type JJS) (ATTACHING PARTS)	1
-29	4697	.	NUT, Round, serrated, brs, ni pl, 3/8-32 thd by 0.094 in. thk .	1
-30	8540	.	WASHER, Lock, brz, ni pl, 0.384 ID by 0.500 OD by 0.030 . . . in. thk (SH)(1902-02) - - - * - - -	1
-31	8084	.	SWITCH, Toggle, SPST, 3 amp, 250V (CUT)(8908K142) (ATTACHING PARTS)	1
-32	—	.	NUT, Round, serrated, 15/32-32 thd (supplied with 8084)	1
-33	—	.	NUT, Hexagon, 15/32-32 thd (supplied with 8084) - - - * - - -	1
-34	20452	.	SWITCH, Toggle, single pole momentary action (ATTACHING PARTS)	1
-35	4697	.	NUT, Round, serrated, brs, ni pl, 3/8-32 thd by 0.094 in. thk .	1
-36	8540	.	WASHER, Lock, brz, ni pl, 0.384 ID by 0.500 OD by 0.030 . . . in. thk (SH)(1902-02) - - - * - - -	1
-37	26902	.	PANEL ASSEMBLY	1

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
DS1	14-10	29447
DS2	14-10	29447
DS3	14-10	29447
J1	14-14	27823-0014
J2	14-9	27196
J3	14-9	27196
M1	14-23	26913

Ref Desig	Figure & Index No.	Part No.
P1	14-13	20416
P2	14-13	20416
R1	14-28	26914
R2	14-20	209-0006
S1	14-31	8084
S2	14-34	20452
S3	14-28	26914
S4	14-26	26915

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
15-	32670		GONIOMETER-INDICATOR ASSEMBLY, ARC Type IN-21B	
15-	33550		GONIOMETER-INDICATOR ASSEMBLY, ARC Type IN-21C	
-1	33277		. COVER (ATTACHING PARTS)	1
-2	514-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, blk oxidized, No. 4-40 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	2
-3	33871-1003		. CONNECTOR, Receptacle, electrical (MS3102R10SL-3P) (ATTACHING PARTS)	1
-4	504-0024		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 3/8 in. lg (SH)(SEMS) - - - * - - -	4
-5	33877-1009		. CONNECTOR, Receptacle, electrical (MS24056-1) (ATTACHING PARTS)	1
-6	33878-0001		. NUT, Hexagon (MS24017-2)	1
-7	33878-0002		. WASHER, Lock (SH)(1924-02-00)	1
-8	33878-0003		. RING, Lock (MS24057-2) - - - * - - -	1
-9	31169-0000		. CONNECTOR, Receptacle, electrical (MS3102R16S-1P) (ATTACHING PARTS)	1
-10	504-0024		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 3/8 in. lg (SH)(SEMS) - - - * - - -	4
-11	32673-0001		. PLATE, Identification (used in IN-21B only)	1
-11	33553-0001		. PLATE, Identification (used in IN-21C only)	1
-12	33282		. PLATE ASSEMBLY (ATTACHING PARTS)	1
-13	144-0016		. SCREW, Machine, fh, brs, ni pl, No. 4-40 thd by 1/4 in. lg . .	1
-14	8775-0016		. PIN, Spring (MS171432) - - - * - - -	2
-15	33281		. PLATE, Printed (ATTACHING PARTS)	1
-16	504-0040		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 5/8 in. lg (SH)(SEMS)	3
-17	104-0040		. SCREW, Machine, bind. h, brs, ni pl, No. 4-40 thd by 5/8 . . . in. lg	1
-18	8927-0004		. TERMINAL, Lug - - - * - - -	1
-19	29609-0026		. SPACER	4
-20	33273		. BLOCK (ATTACHING PARTS)	1
-21	504-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	2
-22	20097-0134		. POST (ATTACHING PART)	1
-23	504-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	1
-24	33245		. CAM ASSEMBLY (ATTACHING PARTS)	1
-25	504-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 4-40 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	4
-26	33228		. FIDUCIAL (ATTACHING PARTS)	1
-27	502-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 2-56 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	2

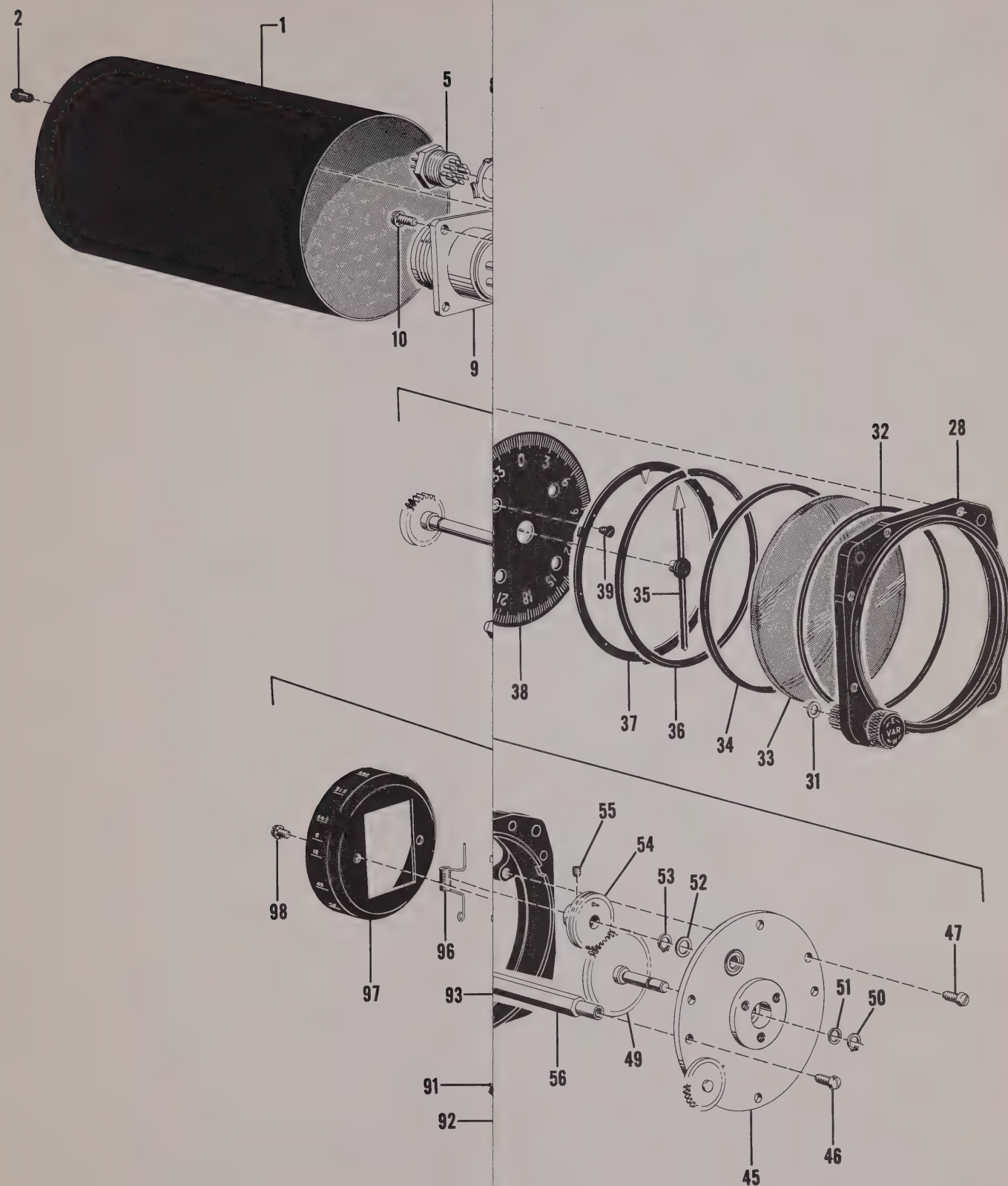
Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
15-28	33076	.	FLANGE ASSEMBLY	1
			(ATTACHING PARTS)	
-29	174-0024	.	SCREW, Machine, fil h, brs, blk oxidized, No. 4-40 thd by . . .	8
			3/8 in. lg	
-30	29519	.	WASHER, Lock, for No. 4 screw	8
			--- * ---	
-31	6376	.	WASHER, Flat, 0.130 ID by 0.219 OD by 0.0062 in. thk	1
-32	20249	.	WASHER, Rubber, 2-24/32 ID by 3 OD by 0.016 in. thk.	1
-33	26050	.	WINDOW	1
-34	20250	.	GASKET.	1
-35	28775	.	POINTER ASSEMBLY.	1
-36	20261	.	RING, Snap	1
-37	33079-0001	.	MASK	1
-38	34162	.	DIAL	1
			(ATTACHING PARTS)	
-39	152-0012	.	SCREW, Machine, bind. h, brs, blk oxidized, No. 2-56 thd. . .	4
			by 3/16 in. lg	
			--- * ---	
-40	34156	.	PLATE	1
			(ATTACHING PARTS)	
-41	102-0012	.	SCREW, Machine, bind. h, brs, ni pl, No. 2-56 thd by 3/16 . .	3
			in. lg	
			--- * ---	
-42	34144	.	GEAR, Spur	1
-43	33083	.	WASHER, Formed	1
-44	33092-0001	.	GEARING UNIT ASSEMBLY (used in IN-21B)	1
-44	33092-0002	.	GEARING UNIT ASSEMBLY (used in IN-21C)	1
-45	33084	.	PLATE ASSEMBLY.	1
			(ATTACHING PARTS)	
-46	104-0020	.	SCREW, Machine, bind. h, brs, ni pl, No. 4-40 thd by . . .	3
			5/16 in. lg	
-47	104-0024	.	SCREW, Machine, bind. h, brs, ni pl, No. 4-40 thd by . . .	3
			3/8 in. lg	
			--- * ---	
-48	34155	.	FLANGE	1
-49	33089	.	GEAR ASSEMBLY	1
			(ATTACHING PARTS)	
-50	28665-0012	.	RING, Retaining (WKI)(5100-12-C)	1
-51	17768-0000	.	SHIM	AR
			--- * ---	
-52	7117-0000	.	WASHER, Flat, sst, 0.192 ID by 0.281 OD by 0.005 in. thk . .	AR
-53	28665-0018	.	RING, Retaining (WKI)(5100-18-C)	1
-54	33270	.	GEAR ASSEMBLY	1
			(ATTACHING PARTS)	
-55	302-0006	.	SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. . .	2
			2-56 thd by 3/32 in. lg	
			--- * ---	
-56	33093	.	POST	3
-57	33148	.	GEAR ASSEMBLY	1
			(ATTACHING PARTS)	
-58	302-0006	.	SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. . .	2
			2-56 thd by 3/32 in. lg	
			--- * ---	
-59	33129	.	GEAR ASSEMBLY	1
-60	33127	.	GEAR ASSEMBLY	1
-61	33694	.	GEAR ASSEMBLY	1
-62	30087	.	GEAR ASSEMBLY (used in IN-21B only)	1
			(ATTACHING PARTS)	
-63	304-0006	.	SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. . .	2
			4-40 thd by 3/32 in. lg (used in IN-21B only)	
			--- * ---	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
15-64	18007	. .	MOTOR (CLIP)(AEC-10-QAB-3A/A612) (ATTACHING PARTS)	1
-65	163-0020	. .	SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 5/16. . . in. lg	2
-66	4559	. .	WASHER, Lock, for No. 3 screw	2
-67	17166	. .	TERMINAL, Lug	1
-68	26804-0000	. .	CLAMP, Rim clinching	2
-69	26805-0006	. .	SPACER - - - * - - -	2
-70	32777	. .	GONIOMETER (ATTACHING PARTS)	1
-71	163-0028	. .	SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 7/16. . . in. lg	3
-72	4559	. .	WASHER, Lock, for No. 3 screw	3
-73	26804-0000	. .	CLAMP, Rim clinching	3
-74	26805-0003	. .	SPACER - - - * - - -	3
-75	18008	. .	SYNCHRO, Transmitter (used in IN-21B only) (KER) (RS911-4A) (ATTACHING PARTS)	1
-76	163-0024	. .	SCREW, Machine, fil h, brs, ni pl, No. 3-48 thd by 3/8 . . . in. lg (used in IN-21B only)	2
-77	4559	. .	WASHER, Lock, for No. 3 screw (used in IN-21B only)	2
-78	17166	. .	TERMINAL, Lug (used in IN-21B only)	1
-79	26804-0000	. .	CLAMP, Rim clinching (used in IN-21B only)	2
-80	26805-0002	. .	SPACER (used in IN-21B only) - - - * - - -	2
-81	33489	. .	PLATE ASSEMBLY	1
-82	33227	. .	GEAR, Spur (used in IN-21B only) (ATTACHING PARTS)	1
-83	302-0006	. .	SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. . . 2-56 thd by 3/32 in. lg (used in IN-21B only) - - - * - - -	2
-84	33152	. .	GEAR ASSEMBLY (ATTACHING PARTS)	1
-85	302-0006	. .	SETSCREW, Fluted socket dr, cup point, stl, cad pl, No. . . 2-56 thd by 3/32 in. lg - - - * - - -	2
-86	33094	. .	POST	3
-87	33243	. .	POST	4
-88	33205	. .	GEARING ASSEMBLY (ATTACHING PARTS)	1
-89	28665-0025	. .	RING, Retaining (WKI)(5100-25-MD)	1
-90	21623	. .	WASHER, Flat, 0.257 ID by 0.344 OD by 0.0030 in. thk - - - * - - -	1
-91	29857	. . .	ARM ASSEMBLY (ATTACHING PART)	1
-92	102-0012	. . .	SCREW, Machine, bind. h, brs, ni pl, No. 2-56 thd by . . . 3/16 in. lg - - - * - - -	1
-93	29848	. . .	PIN, Grooved, headed (ATTACHING PARTS)	1
-94	28665-0012	. . .	RING, Retaining (WKI)(5100-12-C)	1
-95	17768-0000	. . .	SHIM, sst, 0.128 ID by 0.187 OD by 0.003 in. thk - - - * - - -	1
-96	29849	. . .	SPRING, Helical, torsion	1
-97	33248	. . .	DIAL, Printed (ATTACHING PARTS)	1
-98	502-0008	. . .	SCREW, Assembled washer, bind. h, brs screw, sst . . . lockwasher, ni pl, No. 2-56 thd by 1/8 in. lg (SH)(SEMS) - - - * - - -	2

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
15-99	33207	. . .	PIN, Shoulder	1
-100	30995	. . .	WASHER, Flat, sst, 0.380 ID by 0.500 OD by 0.040 in. thk .	1
-101	17831	. . .	SPRING, Helical, extension	1
-102	29852	. . .	GEAR, Spur	1
-103	30314	. . .	GEAR, Spur	1
-104	30996	. . .	WASHER, Flat, sst, 0.281 ID by 0.500 OD by 0.062 in. thk .	1
-105	8775-0442	. . .	PIN, Spring	1
-106	33208	. . .	PLATE ASSEMBLY	1
-107	33224	. . .	GEAR ASSEMBLY	1
			(ATTACHING PARTS)	
-108	28665-0018	. .	RING, Retaining (WKI) (5100-18-C)	1
-109	7117	. .	WASHER, Flat	AR
			- - - * - - -	
-110	33533	. .	PLATE ASSEMBLY, Rear	1

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
B1	15-64	18007
B2	15-70	32777
B3	15-75	18008
J1	15-9	31169-0000
J2	15-5	33877-1009
J3	15-3	33871-1003



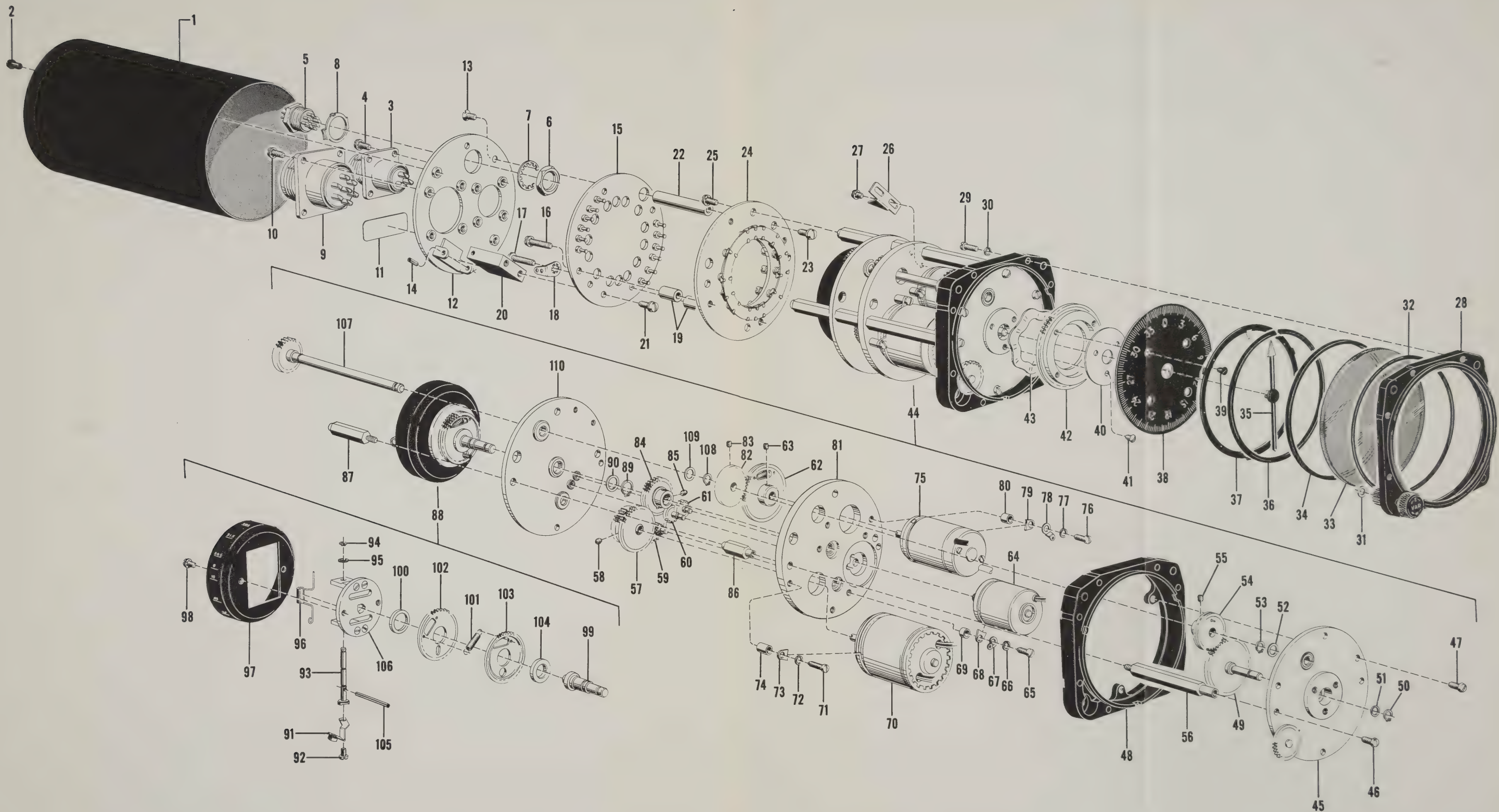
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Figure 15. IN-21B and IN-21C Goniometer-Indicators, Exploded View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
15-99	33207	. . .	PIN, Shoulder	1
-100	30995	. . .	WASHER, Flat, sst, 0.380 ID by 0.500 OD by 0.040 in. thk .	1
-101	17831	. . .	SPRING, Helical, extension	1
-102	29852	. . .	GEAR, Spur	1
-103	30314	. . .	GEAR, Spur	1
-104	30996	. . .	WASHER, Flat, sst, 0.281 ID by 0.500 OD by 0.062 in. thk .	1
-105	8775-0442	. . .	PIN, Spring	1
-106	33208	. . .	PLATE ASSEMBLY	1
-107	33224	. . .	GEAR ASSEMBLY	1
			(ATTACHING PARTS)	
-108	28665-0018	. . .	RING, Retaining (WKI) (5100-18-C)	1
-109	7117	. . .	WASHER, Flat	AR
			- - - * - - -	
-110	33533	. . .	PLATE ASSEMBLY, Rear	1

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
B1	15-64	18007
B2	15-70	32777
B3	15-75	18008
J1	15-9	31169-0000
J2	15-5	33877-1009
J3	15-3	33871-1003



TP4245

Figure 15. IN-21B and IN-21C Goniometer-Indicators, Exploded View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
16-	24630-0014		DYNAVERTER ASSEMBLY, ARC Type DV-14A (14V)	
16-	24630-0028		DYNAVERTER ASSEMBLY, ARC Type DV-14A (28V)	
-1	22289		. TRANSISTOR, Type 2N375 (ATTACHING PARTS)	4
-2	8950-0040		. NUT, Self-locking, hexagon, No. 4-40 thd by 0.229 in. thk (EN) . (68NM40) - - - * - - -	8
-3	26041-0001		. PLATE, Information (ATTACHING PARTS)	1
-4	8081		. SCREW, Tapping, thd forming, rd hd, Phillips dr, stl, blk . . . Parkerized fin, No. 2 by 5/32 in. lg (PK)(Z) - - - * - - -	2
-5	26040-0001		. PLATE, Identification (14V)	1
-5	26040-0002		. PLATE, Identification (28V) (ATTACHING PARTS)	1
-6	8081		. SCREW, Tapping, thd forming, rd hd, Phillips dr, stl, blk . . . Parkerized fin, No. 2 by 5/32 in. lg (PK)(Z) - - - * - - -	2
-7	25806		. COVER ASSEMBLY. (ATTACHING PARTS)	1
-8	510-0016		. SCREW, Assembled washer, bind. h, brs screw, ph brz lock- . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	8
-9	26130-0014		. PRINTED CIRCUIT ASSEMBLY, 14V	1
-9	26130-0028		. PRINTED CIRCUIT ASSEMBLY, 28V (ATTACHING PARTS)	1
-10	503-0016		. SCREW, Assembled washer, bind. h, brs screw, sst lock- . . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS)	2
-11	143-0012		. SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 3/16 in. lg . . - - - * - - -	8
-12	8851		. . CAPACITOR, Fixed, electrolytic, 2 μ f $\pm$ 20 per cent, 150 . . . vdcw (SPR)(110D205X0150G1)	1
-12A	201-0473		. . RESISTOR, Fixed, comp, 47,000 ohms $\pm$ 5 per cent, 1/2 w . . (AB)(EB4735)	1
-13	8627-9223		. . CAPACITOR, Fixed, ceramic, 0.022 μ f $\pm$ 80 -20 per cent, . . 500 vdcw	3
-14	27483-9221		. . CHOKE, RF, 2.2 mh $\pm$ 10 per cent	1
-15	8931-0401		. . SEMICONDUCTOR DEVICE, Diode, type 1N2070	2
-16	21485-9101		. . CAPACITOR, Fixed, electrolytic, 1 μ f $\pm$ 20 per cent, 35 vdcw . (SPR)(150D105X0035A2)	2
-17	26249		. . RADIATOR	2
-18	8984-0003		. . TRANSISTOR, Type 2N1183B	2
-19	201-0180		. . RESISTOR, Fixed, comp, 18 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB1805) (used in 14V model)	1
-19	201-0330		. . RESISTOR, Fixed, comp, 33 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB3305) (used in 28V model)	1
-20	201-0220		. . RESISTOR, Fixed, comp, 22 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB2205) (used in 14V model)	1
-20	201-0470		. . RESISTOR, Fixed, comp, 47 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB4705) (used in 28V model)	1
-21	202-0471		. . RESISTOR, Fixed, comp, 470 ohms $\pm$ 5 per cent, 1 w (AB) . . (GB4715) (used in 14V model)	1
-21	202-0102		. . RESISTOR, Fixed, comp, 1000 ohms $\pm$ 5 per cent, 1 w (AB) . . (GB1025) (used in 28V model)	1
-22	26173		. . TRANSFORMER, Oscillator (CMPB)(L-3073) (used in 14V . . model)	1
-22	25297		. . TRANSFORMER, Oscillator (CMPB)(L-3018B) (used in 28V . . model)	1

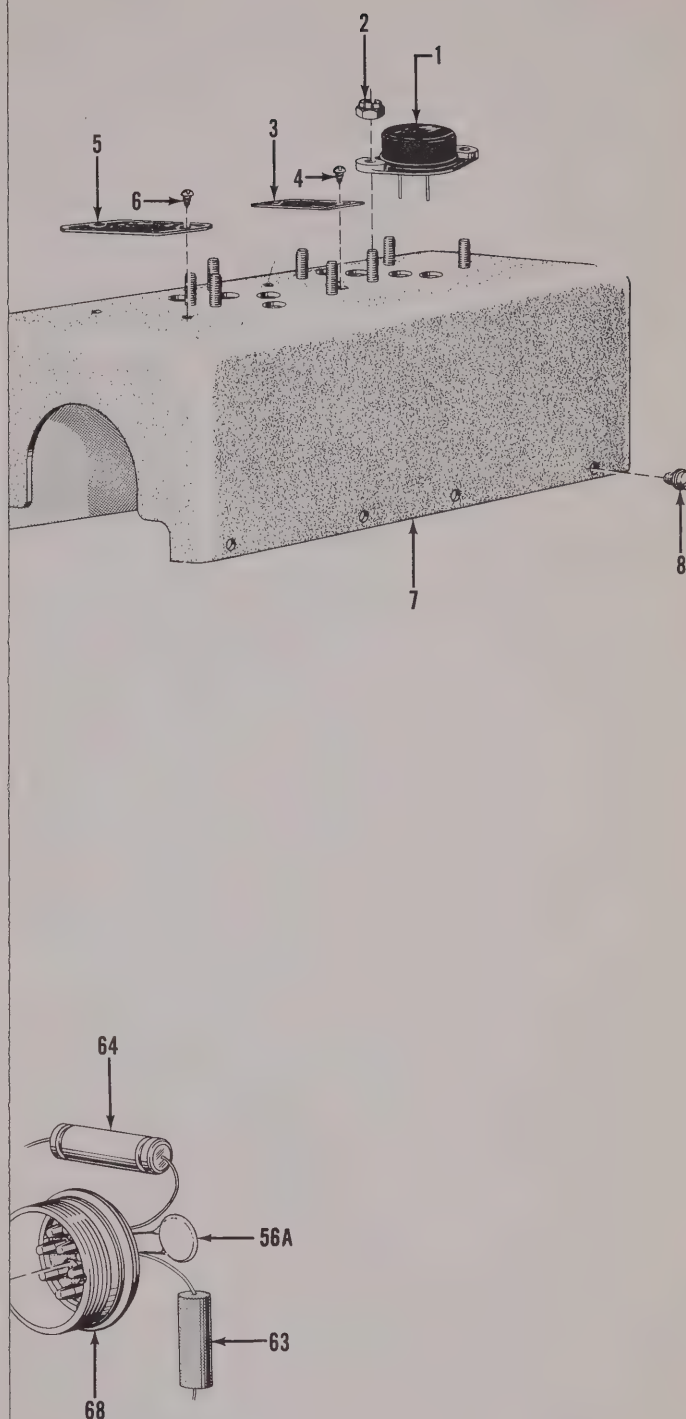
Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
16-23	503-0016		(ATTACHING PARTS) . . SCREW, Assembled washer, bind. h, brs screw, sst lock- . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	4
-24	26174		. . TRANSFORMER, Output (CMPB)(L-3071) (used in 14V model) .	1
-24	25296		. . TRANSFORMER, Output (CMPB)(L-2966C) (used in 28V . . . model)	1
-25	503-0016		(ATTACHING PARTS) . . SCREW, Assembled washer, bind. h, brs screw, sst lock- . . washer, ni pl, No. 3-48 thd by 1/4 in. lg (SH)(SEMS) - - - * - - -	4
-26	8627-9223		. . CAPACITOR, Fixed, ceramic, 0.022 μ f +80 -20 per cent, . . 500 vdcw	2
-27	209-9752		. . RESISTOR, Fixed, ww, 0.75 ohms $\pm$ 3 per cent, 3 w (DABU) . . (RS-2-R75H) (used in 14V model)	1
-27	209-9201		. . RESISTOR, Fixed, ww, 2 ohms $\pm$ 3 per cent, 3 w (DABU) . . . (RS-2-2H) (used in 28V model)	1
-28	201-0820		. . RESISTOR, Fixed, comp, 82 ohms $\pm$ 5 per cent, 1/2 w (AB) . . (EB8205) (used in 14V model)	2
-28	201-0181		. . RESISTOR, Fixed, comp, 180 ohms $\pm$ 5 per cent, 1/2 w (AB) . (EB1815) (used in 28V model)	2
-29	201-0392		. . RESISTOR, Fixed, comp, 3900 ohms $\pm$ 5 per cent, 1/2 w (AB) . (EB3925) (used in 14V model)	2
-29	201-0103		. . RESISTOR, Fixed, comp, 10,000 ohms $\pm$ 5 per cent, 1/2 w . . (AB)(EB1035) (used in 28V model)	2
-30	26129		. . PRINTED CIRCUIT SUBASSEMBLY	1
-31	26176		. TRANSFORMER, Toroidal (used in 14V model)	1
-31	25762		. TRANSFORMER, Toroidal (used in 28V model)	1
-32	143-0012		(ATTACHING PARTS) . SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 3/16 in. lg . . - - - * - - -	2
-33	14699		. TERMINAL, Lug (ATTACHING PARTS)	1
-34	143-0016		. SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 1/4 in. lg . .	1
-35	4103		. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703) - - - * - - -	1
-36	24420		. CAPACITOR, Fixed, electrolytic, 12 μ f +75 -15 per cent, 150 . vdcw (SPR)(112D126C7150J)	1
-37	15763		. CAPACITOR, Fixed, paper, 0.25 μ f $\pm$ 5 per cent, 350 vdcw . . . (ATTACHING PARTS)	1
-38	143-0008		. SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 1/8 in. lg . . - - - * - - -	2
-39	18328		. REACTOR, 1.5H (CMPB)(L-1688) (ATTACHING PARTS)	1
-40	142-0016		. SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 1/4 in. lg . . - - - * - - -	2
-41	8998-9472		. CAPACITOR, Fixed, paper, 0.47 μ f $\pm$ 10 per cent, 400 vdcw . . (SPR)(121P47494S7) (ATTACHING PARTS)	1
-42	4041		. NUT, Hexagon, brs, ni pl, No. 6-32 thd by 0.078 in. thk	1
-43	8488		. WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk . . . (SH)(1706) - - - * - - -	1
-44	8998-9222		. CAPACITOR, Fixed, paper, 0.22 μ f $\pm$ 10 per cent, 400 vdcw . . (SPR)(121P22494S7) (ATTACHING PARTS)	1
-45	4041		. NUT, Hexagon, brs, ni pl, No. 6-32 thd by 0.078 in. thk	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
16-46	8488	.	WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk . . . (SH)(1706)	1
			-----*	
-47	8997-9332	.	CAPACITOR, Fixed, paper, 0.33 μ f $\pm$ 5 per cent, 400 vdcw . . . (SPR)(118P33454S7)	1
			(ATTACHING PARTS)	
-48	4041	.	NUT, Hexagon, brs, ni pl, No. 6-32 thd by 0.078 in. thk	1
-49	8488	.	WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk . . . (SH)(1706)	1
			-----*	
-50	21429	.	REACTOR, 1.2 mh (CMPB)(L-2254)	1
			(ATTACHING PARTS)	
-51	143-0016	.	SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 1/4 in. lg . .	2
			-----*	
-52	8924-0470	.	CAPACITOR, Fixed, electrolytic, 47 μ f $\pm$ 20 per cent, 50 vdcw . (SPR)(109D476X0050F2)	1
-53	14699	.	TERMINAL, Lug	1
			(ATTACHING PARTS)	
-54	143-0016	.	SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 1/4 in. lg . .	1
-55	4103	.	WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
			-----*	
-56	8996-9222	.	CAPACITOR, Fixed, plastic, 0.22 μ f $\pm$ 20 per cent, 50 vdcw . .	1
			(GAEM)(601PE2240R5W4)	
-56A	8627-9223	.	CAPACITOR, Fixed, ceramic, 0.022 μ f $\pm$ 80 -20 per cent, 500 . vdcw	2
-57	18329-0001	.	TRANSFORMER, Output (CMPB)(L-1668)	1
			(ATTACHING PARTS)	
-58	25754	.	PLATE	2
-59	142-0016	.	SCREW, Machine, fh, brs, ni pl, No. 2-56 thd by 1/4 in. lg . .	4
			-----*	
-60	14484	.	RELAY, Armature (used in 14V model)	1
-60	14485	.	RELAY, Armature (used in 28V model)	1
			(ATTACHING PARTS)	
-61	143-0008	.	SCREW, Machine, fh, brs, ni pl, No. 3-48 thd by 1/8 in. lg . .	2
			-----*	
-62	8931-0401	.	SEMICONDUCTOR DEVICE, Diode, type 1N2070	1
-63	8778	.	RESISTOR, Fixed, ww, 2 ohms $\pm$ 3 per cent, 5 w (DABU) (RSE-5) (used in 28V model)	1
-64	24420	.	CAPACITOR, Fixed, electrolytic, 12 μ f $\pm$ 75 -15 per cent, . . . 150 vdcw (SPR)(112D126C7150J)	1
-65	18062	.	STUD, Threaded	2
			(ATTACHING PARTS)	
-66	4041	.	NUT, Hexagon, brs, ni pl, No. 6-32 thd by 0.078 in. thk	2
-67	25815	.	WASHER, Flat, al, potash dip, 0.144 ID by 0.250 OD by 0.032 . . in. thk	2
			-----*	
-68	16713	.	CONNECTOR, Receptacle, electrical.	1
			(ATTACHING PARTS)	
-69	16720	.	NUT, Round, knurled, brs, ni pl, 1-3/8-24 thd by 0.109 in. thk . (supplied with 68, Figure 16)	1
			-----*	
-70	25339-0014	.	BASE ASSEMBLY (used in 14V model)	1
-70	25339-0028	.	BASE ASSEMBLY (used in 28V model)	1

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
C701	16-16	21485-9101
C702	16-16	21485-9101
C703	16-47	8997-9332
C704	16-52	8924-0470
C705	16-26	8627-9223
C706	16-26	8627-9223
C707	16-13	8627-9223
C708	16-64	24420
C709	16-56	8996-9222
C710	16-41	8998-9472
C711	16-36	24420
C712	16-37	15763
C713	16-44	8998-9222
C714	16-13	8627-9223
C715	16-13	8627-9223
C716	16-12	8851
C717	16-56A	8627-9223
C718	16-56A	8627-9223
CR701	16-15	8931-0401
CR702	16-15	8931-0401
CR703	16-62	8931-0401
J701	16-68	16713
K701	16-60	14484
K701	16-60	14485
L701	16-50	21429
L702	16-39	18328
L703	16-14	27483-9221
Q701	16-18	8984-0003
Q702	16-18	8984-0003

Ref Desig	Figure & Index No.	Part No.
Q703	16-18	8984-0003
Q704	16-1	22289
Q705	16-1	22289
Q706	16-1	22289
R701	16-21	202-0102
R701	16-21	202-0471
R702	16-20	201-0220
R702	16-20	201-0470
R703	16-19	201-0180
R703	16-19	201-0330
R704	16-29	201-0103
R704	16-29	201-0392
R705	16-29	201-0103
R705	16-29	201-0392
R706	16-28	201-0181
R706	16-28	201-0820
R707	16-28	201-0181
R707	16-28	201-0820
R708	16-27	209-9201
R708	16-27	209-9752
R709	16-63	8778
R710	16-12A	201-0473
T701	16-22	25297
T701	16-22	26173
T702	16-31	25762
T702	16-31	26176
T703	16-24	25296
T703	16-24	26174
T704	16-57	18329-0001



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Figure 16. DV-14A Dynaverter, Exploded View

REFERENCE DESIGNATION INDEX

Ref Desig	Figure & Index No.	Part No.
C701	16-16	21485-9101
C702	16-16	21485-9101
C703	16-47	8997-9332
C704	16-52	8924-0470
C705	16-26	8627-9223
C706	16-26	8627-9223
C707	16-13	8627-9223
C708	16-64	24420
C709	16-56	8996-9222
C710	16-41	8998-9472
C711	16-36	24420
C712	16-37	15763
C713	16-44	8998-9222
C714	16-13	8627-9223
C715	16-13	8627-9223
C716	16-12	8851
C717	16-56A	8627-9223
C718	16-56A	8627-9223
CR701	16-15	8931-0401
CR702	16-15	8931-0401
CR703	16-62	8931-0401
J701	16-68	16713
K701	16-60	14484
K701	16-60	14485
L701	16-50	21429
L702	16-39	18328
L703	16-14	27483-9221
Q701	16-18	8984-0003
Q702	16-18	8984-0003

Ref Desig	Figure & Index No.	Part No.
Q703	16-18	8984-0003
Q704	16-1	22289
Q705	16-1	22289
Q706	16-1	22289
R701	16-21	202-0102
R701	16-21	202-0471
R702	16-20	201-0220
R702	16-20	201-0470
R703	16-19	201-0180
R703	16-19	201-0330
R704	16-29	201-0103
R704	16-29	201-0392
R705	16-29	201-0103
R705	16-29	201-0392
R706	16-28	201-0181
R706	16-28	201-0820
R707	16-28	201-0181
R707	16-28	201-0820
R708	16-27	209-9201
R708	16-27	209-9752
R709	16-63	8778
R710	16-12A	201-0473
T701	16-22	25297
T701	16-22	26173
T702	16-31	25762
T702	16-31	26176
T703	16-24	25296
T703	16-24	26174
T704	16-57	18329-0001

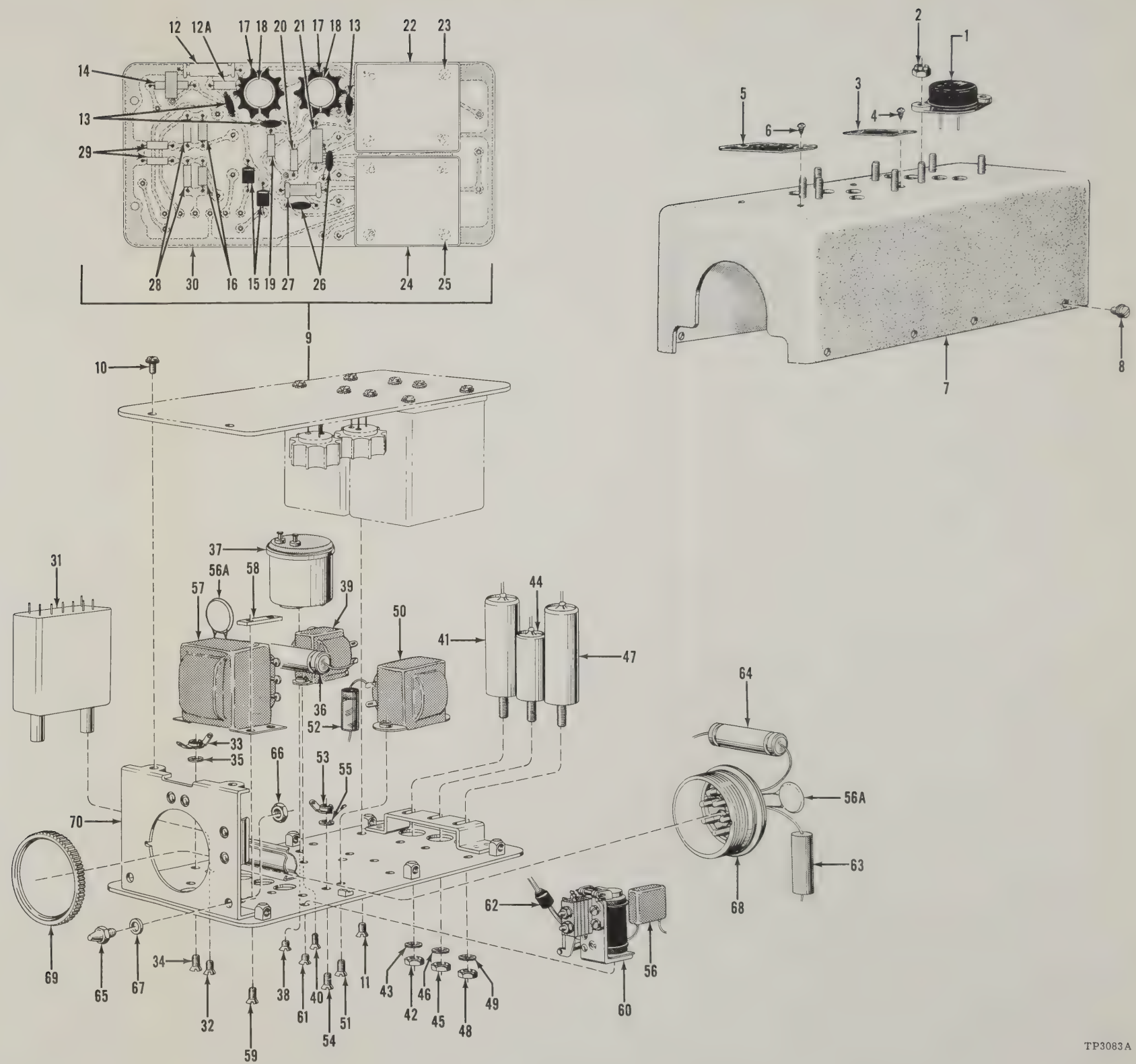
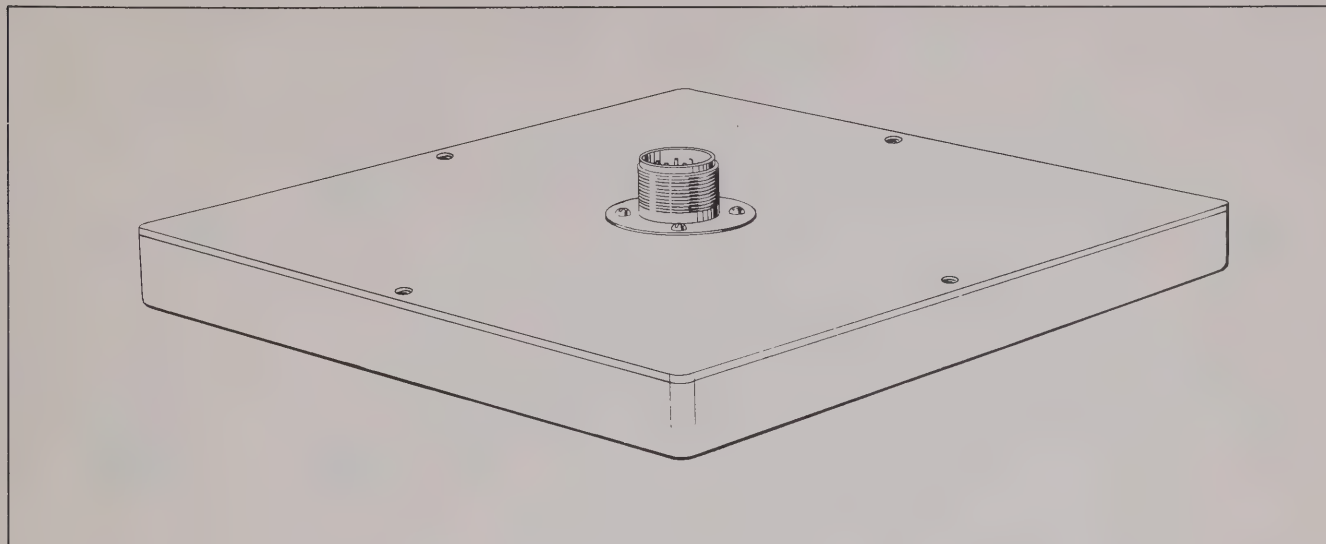


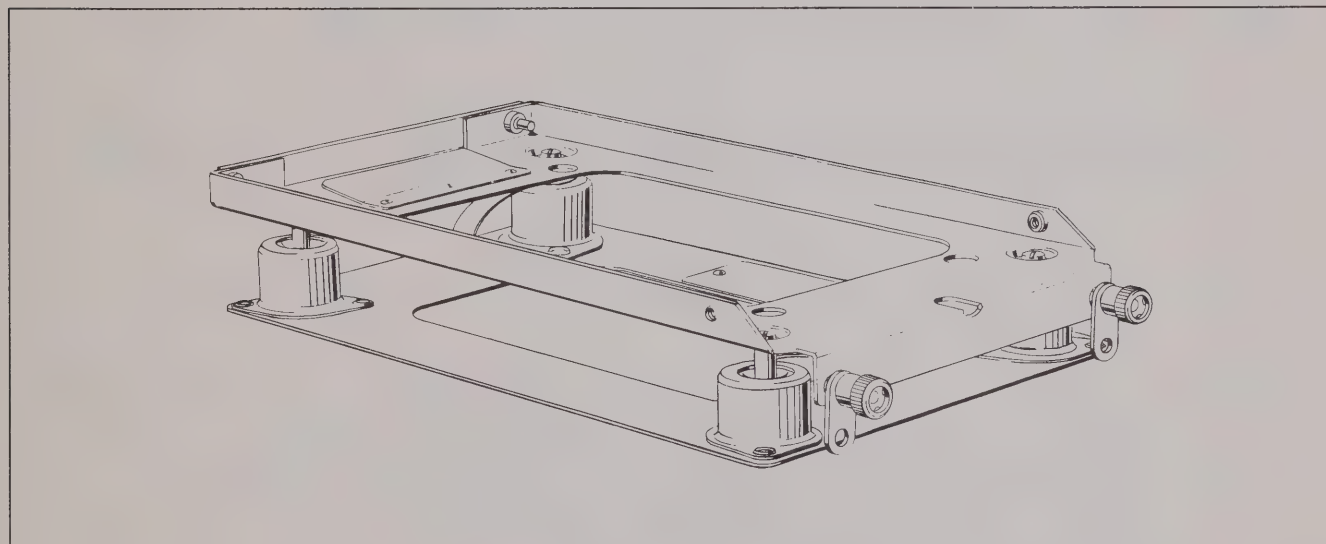
Figure 16. DV-14A Dynaverter, Exploded View

TP3083A



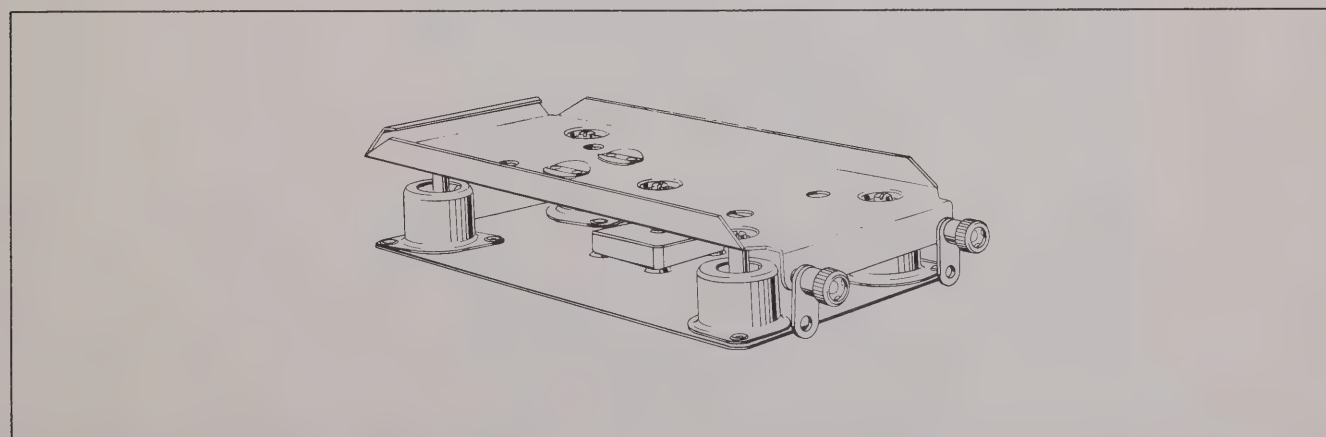
TP4331

Figure 17. L-40B Loop Antenna (Part No. 34390)¹



TP4333

Figure 18. M-26A Mounting (Part No. 21660)¹



TP4335

Figure 19. M-28A Mounting (Part No. 21660)¹

¹Detail parts are nonprocurable.

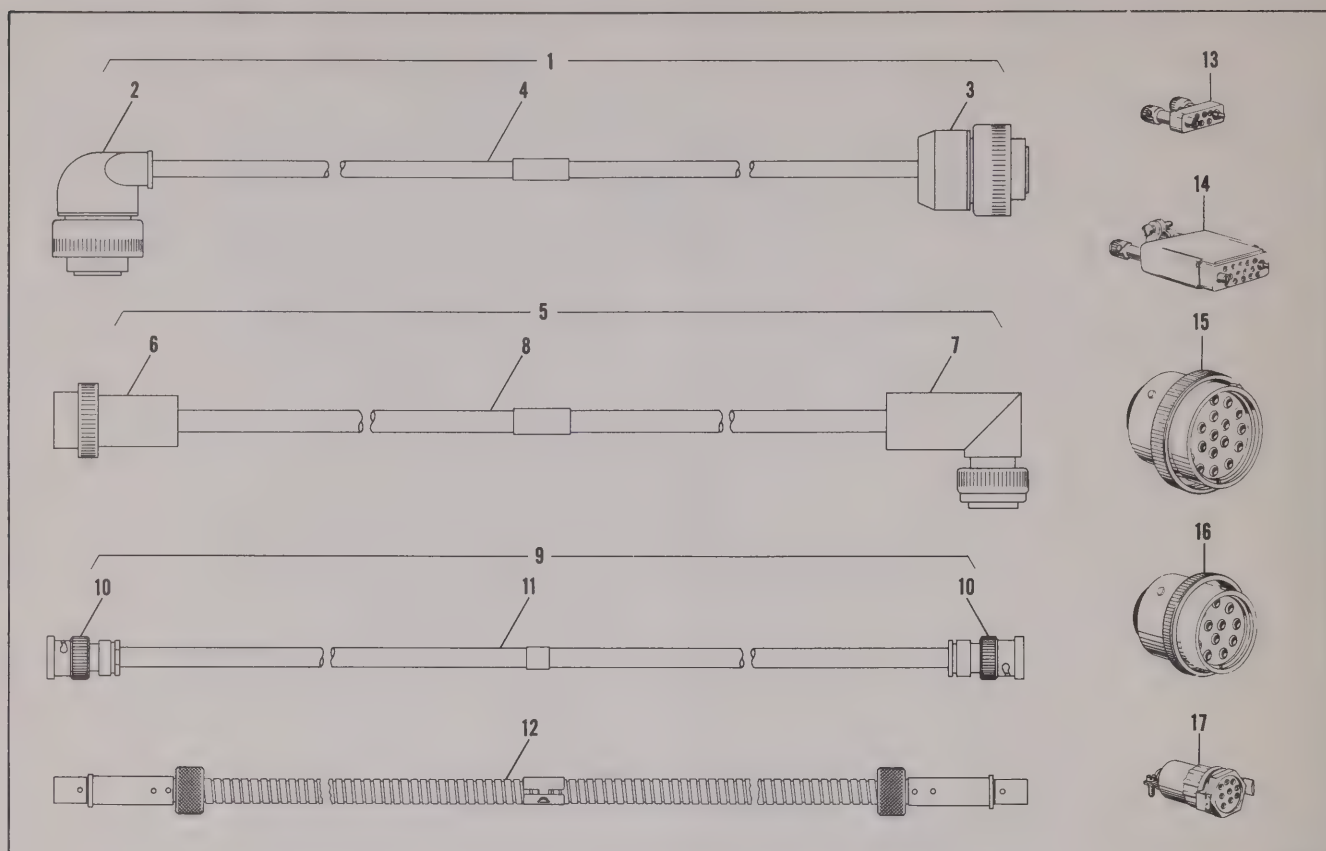


Figure 20. Accessories

TP4337

Figure & Index No.	ARC Part No.	1 2 3 4 5 6	Description	Qty per Assy
20-1	32803		CABLE ASSEMBLY, Loop antenna to goniometer-indicator	1
-2	32806-0001		. CONNECTOR, Plug, electrical (CANNON)(CA3108ER-16S-1S) . .	1
-3	32805-0001		. CONNECTOR, Plug, electrical (CANNON)(CA3106ER16S-1S) . .	1
-4	30057		. CABLE, Special purpose, electrical, 20 feet	1
-5	33785-* ¹		CABLE ASSEMBLY, Receiver to goniometer-indicator	1
-6	33758		. CONNECTOR, Plug, electrical	1
-7	33874		. CONNECTOR, Plug, electrical	1
-8	31172		. CABLE, Special purpose, electrical	AR
-9	17984-0000		CABLE ASSEMBLY, Sense antenna to receiver, 7 ft. 6 in.	1
-9	18637-0000		CABLE ASSEMBLY, Sense antenna to receiver, 14 ft.	1
-10	12955		. CONNECTOR, Plug, electrical, type UG-260C/U (part of	2
			17984-0000)	
-10	18767		. CONNECTOR, Plug, electrical (DAGE)(CBSN2310-1) (part of . .	2
			18637-0000)	
-11	13899		. CABLE, Special purpose, electrical (part of 17984-0000)	1
-11	18114		. CABLE, Special purpose, electrical (part of 18637-0000)	1
-12	16158-* ¹		MECHANICAL LINKAGE	AR
-13	27818-0005		CONNECTOR, Plug, electrical (USC)(SMI-5FS2K-DM30) (used . .	1
			with CC-14A Control Unit)	
-14	27818-0014		CONNECTOR, Plug, electrical (USC)(SMI-14F2HRSL-DM30)	1
			(used with CC-15A Control Unit)	
-15	16115		CONNECTOR, Plug, electrical (used with R-30A Receiver and . .	2
			C-59A Control Unit)	
-16	16742		CONNECTOR, Plug, electrical (used with DV-14A Dynaverter) . .	1
-17	33979		CONNECTOR, Plug, electrical (used with IN-21B or IN-21C	1
			Goniometer-Indicator)	

¹To complete part number, replace asterisk with correct length.



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